

Milton Bradley Co's CATALOGUE.

GRACE M. SMITH,
STATE NORMAL SCHOOL,
FARMINGTON, ME.

Thursday, June 11,

1896.

"Not for school, but for life."

Established

1860

Springfield, Mass.

RSK

LB3281

M55

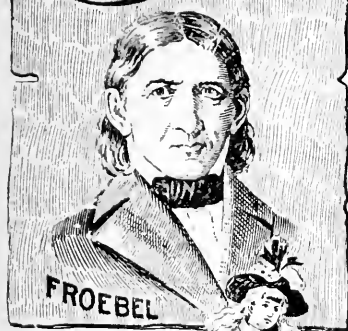
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We publish THE KINDERGARTEN NEWS, a monthly magazine for all who are interested in Juvenile Education—50 cents a year. Send for a sample copy.

Bradley's



KINDERGARTEN MATERIAL

AND

School AIDS

Milton Bradley Co
SPRINGFIELD, MASS.

PUBLISHERS' NOTE.

This is a revised and condensed edition of our Educational Catalogue, containing three distinct departments for Kindergarten Material, School Aids and Teachers' Books. Each item of any importance is carefully indexed on the last two pages, so that it can be found with little trouble. Customers should not mention the page numbers, however, when ordering goods, because they may not be the same in different editions.

Remember that when * is used before the price of an article it cannot be sent by mail, but must go by express at the expense of the buyer. Those prices without * and having postage added will be sent by mail, when so ordered on receipt of price and postage, but all goods forwarded through the mails are sent at the risk of the people to whom they are addressed, and if they are lost they will not be duplicated by us. Where no postage is quoted none will be required. When enough money is sent to cover the price of the goods but not sufficient for postage we forward by express. If over-payments are made we return the balance immediately. Goods ordered without a remittance by people unknown to us will be sent by express, C. O. D. We pack all goods very carefully, but cannot be responsible for loss or damage which may occur to them after leaving our hands. In making payments use postoffice or express money orders, or New York or Boston drafts. We will accept payments for sums less than one dollar in United States postage stamps of any denomination.

We do not send our material or books "on approval after examination," and positively decline to exchange goods, except for some fault on our part. In the latter case the error will be corrected at our expense, provided it is reported to us before the goods are returned, so that we may indicate the disposal to be made of them.

SPECIAL DIRECTIONS FOR KINDERGARTNERS.

Each item of kindergarten material is numbered in bold type, on the left-hand side of the page. Always use this number when ordering material, so as to avoid mistakes. Notice exactly what goods are called for by the number you use. If, for instance, your order "One of No. 191," you ask for 12 cards, not 1 card; and if the order is "Twelve of 191," it requires 144 cards and not 12. In some cases a number calls for a single piece, and in others for a package of 12, 50 or 100 pieces. Care on this point will prevent many unpleasant errors. If you order weaving and do not give the size of mats and widths of strips we cannot know what you want. If you order sticks and do not specify plain or colored, there is an even chance that we shall not suit you. But if you order regular stock by marginal numbers, and colors by the numbers or symbols in our sample books, all will be clear.

Kindergarten Department.

FIRST GIFT.

This gift consists of six soft balls, about one and one-half inches in diameter, covered by a crochet or netting of worsted. The coverings should be in the six colors, red, orange, yellow, green, blue and violet, one color for each ball. A thread of the covering, a few inches long, should be attached to every ball, by which to suspend it.

A trained kindergartner will not be satisfied with inferior material or workmanship in this gift or any other.

1 First Gift, a set of six balls, in a polished cherry box, with sliding cover, containing crossbeam and supports. Price, \$1.00; postage, \$0.11

Directions for the use of the First Gift and those which follow are found in "Paradise of Childhood."

SECOND GIFT.

This gift consists of a standard two-inch sphere, cylinder and cube, provided with the necessary staples and holes for suspending them in the air, an additional plain cube, two rattan axles for revolving the forms, and two posts and a cross-beam for suspending them; all put up in a polished cherry box, properly constructed for supporting the posts and beam.

2 Second Gift, one set in a box, as above. Price, \$0.60; postage, \$0.23

SECOND GIFT IN BULK.

The forms in this set are provided with the staples and holes as in the independent sets, but there are no sticks, and there is no extra plain cube. If the sticks for rotating are wanted, any required number will be supplied at the price named.

3 A Box containing 12 of each form.

*Price, \$3.50

Rattan axles, per dozen.

Postpaid, .05

THIRD GIFT.

Eight rock-maple cubes one-inch square, in a neat, strong, varnished cherry box, with sliding cover.

4 Third Gift, in polished cherry box.

Price, \$0.20; postage, \$0.08

FOURTH GIFT.

A two-inch cube consisting of eight oblong blocks of rock-maple, each two inches long, one inch wide and one-half inch thick.

5 Fourth Gift in polished cherry box.

Price, \$0.20; postage, \$0.08

FIFTH GIFT.

A three-inch cube consisting of twenty-one whole one-inch cubes, six half cubes and twelve quarter cubes. In varnished cherry box, with sliding cover.

6 Fifth Gift in polished cherry box.

Price, \$0.40; postage, \$0.2

FIFTH GIFT B.



A three-inch cube consisting of twelve whole one-inch cubes, eight similar cubes from each of which a quarter cylinder has been removed at one corner, three one-inch cubes divided diagonally into quarters and six one-inch cylinders divided diagonally into halves. This gift has been made and used in Germany for a long time. It combines cylindrical with cubical forms and is in the line of the further development of the series of building blocks which Fröbel evidently intended to carry out, from the memoranda which he left.

10 Fifth Gift B, in polished cherry box.

Price, \$0.40; postage, \$0.20

SIXTH GIFT.

A three-inch cube consisting of eighteen blocks, two inches long by one inch wide and half an inch thick, and three similar blocks divided lengthwise and six crosswise.

7 Sixth Gift, in polished cherry box.

Price, \$0.40; postage, \$0.20

8 100 cubes of the Third Gift, paper box.

Price, *\$1.50

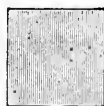
9 100 good cubes of hard wood, same style and size as Third Gift, but not so perfect in every particular.

Price, *\$1.00

Our blocks for the Third, Fourth, Fifth and Sixth Gifts are made with the greatest care from well-seasoned, hard-maple lumber, thoroughly baked in a heated kiln and worked to accurate steel gauges.

SEVENTH GIFT.

This gift consists of wooden tablets in the natural colors of the wood, half light and half dark, with finely-polished surfaces. The natural woods furnish the contrast necessary to produce the designs in light and shade, and limit the thought of the child to form, without confusing the mind with the additional consideration of color effect which results when tablets in various colors are used. The accompanying illustrations represent the forms of our Seventh Gift tablets drawn one-half size, and indicated by letters A, B, C, etc., for reference.



A



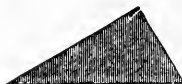
B



C



D



E



F



G



H

The tablets are sold by the hundred without boxes, and empty boxes are furnished separately. These boxes are of wood, finely polished, about eight inches square and two inches deep, and will hold five hundred or more tablets thrown in loosely. For holding the smaller tablets and those of which a smaller number is required the same box is furnished with a partition, thus providing for two forms in one box.

Special attention is invited to the form of our tablet E, which is half of an equilateral triangle, instead of half of an oblong of two squares. To any person interested who will enclose a two cent stamp, we will mail a leaflet explaining this feature and its practical value in the Seventh Gift.

- 20 One box, without partition, (box only), Price.
 21 One box, with partition, (box only), *\$0 25
 * 25

When tablets and boxes are ordered at the same time we will put up the tablets in the boxes at the combined price of the boxes and tablets in bulk.

- 22 100 tablets, in bulk, any form except F. Price, \$0.60; postage, \$0.03
 Tablets F, double the price of the other forms.

SEVENTH GIFT IN PAPER-BOARD.

The tablets of the Seventh Gift are also made in heavy and very solid paper-board, in light and dark tones, one hundred of each form in a separate paper box.
 23 A Seventh Gift, one complete set, paper tablets, as previously described.

Price, \$1.00; postage, \$0.12

KINDERGARTEN PARQUETRY.

Several years since we devised a new occupation in connection with the Seventh Gift which we termed Kindergarten Parquetry, and which has been received with universal favor by leading kindergartners. In this occupation the material consists of colored papers cut accurately to the forms of the tablets, and bears the same relation to the use of the tablets that painting does to drawing.

After designs have been made in light and shade with the tablets the forms can be repeated in colors by the use of parquetry in the occupation of pasting. Several years experience has seemed to prove that this method is more satisfactory in the kindergarten than the use of painted tablets.

In our line of educational colored papers the colors are indicated by symbols, and for convenience the following symbols are here used instead of the full names:—

R.—Red.	Y.—Yellow.	B.—Blue.
O.R.—Orange Red.	G.Y.—Green Yellow.	V.B.—Violet Blue.
R.O.—Red Orange.	Y.G.—Yellow Green.	B.V.—Blue Violet.
O.—Orange.	G.—Green.	V.—Violet.
Y.O.—Yellow Orange.	B.G.—Blue Green.	R.V.—Red Violet.
O Y.—Orange Yellow.	G.B.—Green Blue.	V.R.—Violet Red.

T indicates tint and S indicates shade. The numerals designate the tints and shades, No. 1 indicating those which are nearest the standard in each scale.

In the following list of parquetry papers in envelopes the assortments of colors referred to are as follows:—

ASSORTMENT NO. 1.

R.—R.T. 1.—R.T. 2.—R.S. 1.—R.S. 2.—G.—G.T. 1.—G.T. 2.—G.S. 1.—G.S. 2.

ASSORTMENT NO. 2.

O.—O.T. 1.—O.T. 2.—O.S. 1.—O.S. 2.—B.—B.T. 1.—B.T. 2.—B.S. 1.—B.S. 2.

ASSORTMENT NO. 3.

Y.—Y.T. 1.—Y.T. 2.—Y.S. 1.—Y.S. 2.—V.—V.T. 1.—V.T. 2.—V.S. 1.—V.S. 2.

ASSORTMENT NO. 4.

O.R.—O.R.T.—O.R.S.—Y.O.—Y.O.T.—Y.O.S.—Y.G.—Y.G.T.—Y.G.S.
 B.G.—B.G.T.—B.G.S.—V.B.—V.B.T.—V.B.S.—V.R.—V.R.T.—V.R.S.

In assortments No. 4 and No. 5 the tints and shades are all No. 1.

ASSORTMENT NO. 5.

R.O.—R.O.T.—R.O.S.—O.Y.—O.Y.T.—O.Y.S.—G.Y.—G.Y.T.—G.Y.S.
G.B.—G.B.T.—G.B.S.—B.V.—B.V.T.—B.V.S.—R.V.—R.V.T.—R.V.S.

ASSORTMENT NO. 6 A.

R.—O.—Y.—G.—B.—V.

ASSORTMENT NO. 6B.

Is made up of assortments No. 1, No. 2 and No. 3 (as previously given), with the addition of grays, black and white.

ASSORTMENT NO. 7.

Grays, Black and White.

In the following list of parquetry papers the packages of engine colored papers in "assorted colors" contain these numbers in the sample book of colored papers which we publish:—

1 A—2 A—3 A—4 A—5 A—6 A. 1—2—3—4—5—6. 1 B—2 B—3 B—4 B—5 B—6 B. 7—8—9—10—11—12—13—14—15—16.

The parquetry material is put up in the following packages:—

PARQUETRY PAPERS IN BOXES.

EACH BOX CONTAINS 1000 PIECES, ASSORTED FORMS.

		Price, per box.	Postage.
2000	Ungummed engine colored, assorted colors,	\$0.15	\$0.04
2001	Gummed engine colored, assorted colors, . . . . .	.35	.05
2002	Ungummed coated, six colors, with one tint and one shade of each, and grays and blacks, . . . . .	.20	.04
2003	Gummed coated, six colors, with one tint and one shade of each, and grays and blacks, . . . . .	.40	.05

PARQUETRY PAPERS IN SMALL ENVELOPES.

For the accommodation of those teachers who wish to obtain a small quantity of any one form in any one color of the coated papers we offer the numbers printed below. Each envelope contains but one form and one color. Be sure to mention both form and color in making an order. For example: "Five No. 2150, form A., R. S. 1."

		Price, per envelope.	Postage.
2150	100 Pieces, ungummed coated,	\$0.03	\$0.01
2151	100 Pieces, gummed coated, . . . . .	.05	.01
2152	200 Pieces, ungummed coated, . . . . .	.05	.01
2153	200 Pieces, gummed coated, . . . . .	.08	.01
2154	500 Pieces, ungummed coated, . . . . .	.11	.02
2155	500 Pieces, gummed coated, . . . . .	.18	.02

PARQUETRY PAPERS IN LARGE ENVELOPES.

EACH ENVELOPE CONTAINS 1000 PIECES OF ONE FORM.

		Price, per envelope.	Postage.
2004	Ungummed engine colored, assorted colors, Squares,	\$0.12	\$0.02
2005	Gummed engine colored, assorted colors, Squares, . . . . .	.30	.05
2006	Ungummed coated, Assortment No. 1, Squares, . . . . .	.18	.02
2007	Ungummed coated, Assortment No. 2, Squares, . . . . .	.18	.02
2008	Ungummed coated, Assortment No. 3, Squares, . . . . .	.18	.02
2009	Ungummed coated, Assortment No. 4, Squares, . . . . .	.18	.02
2010	Ungummed coated, Assortment No. 5, Squares, . . . . .	.18	.02
2011A	Ungummed coated, Assortment No. 6 A, Squares, . . . . .	.18	.02
2011B	Ungummed coated, Assortment No. 6 B, Squares, . . . . .	.18	.02

		Price per envelope.	Postage.
2012	Ungummed coated, Assortment No. 7, Squares,	. . . \$0.18	\$0.02
2013	Gummed coated, Assortment No. 1, Squares,	. . . .35	.03
2014	Gummed coated, Assortment No. 2, Squares,	. . . .35	.03
2015	Gummed coated, Assortment No. 3, Squares,	. . . .35	.03
2016	Gummed coated, Assortment No. 4, Squares,	. . . .35	.03
2017	Gummed coated, Assortment No. 5, Squares,	. . . .35	.03
2018A	Gummed coated, Assortment No. 6 A, Squares,	. . . .35	.03
2018B	Gummed coated, Assortment No. 6 B, Squares,	. . . .35	.03
2019	Gummed coated, Assortment No. 7, Squares,	. . . .35	.03
2020	Ungummed engine colored, assorted colors, Half-squares,	.12	.02
2021	Gummed engine colored, assorted colors, Half-squares,	. .30	.03
2022	Ungummed coated, Assortment No. 1, Half-squares,	. .18	.02
2023	Ungummed coated, Assortment No. 2, Half-squares,	. .18	.02
2024	Ungummed coated, Assortment No. 3, Half-squares,	. .18	.02
2025	Ungummed coated, Assortment No. 4, Half-squares,	. .18	.02
2026	Ungummed coated, Assortment No. 5, Half-squares,	. .18	.02
2027A	Ungummed coated, Assortment No. 6 A, Half-squares,	. .18	.02
2027B	Ungummed coated, Assortment No. 6 B, Half-squares,	. .18	.02
2028	Ungummed coated, Assortment No. 7, Half-squares,	. .18	.02
2029	Gummed coated, Assortment No. 1, Half-squares,	. .35	.03
2030	Gummed coated, Assortment No. 2, Half-squares,	. .35	.03
2031	Gummed coated, Assortment No. 3, Half-squares,	. .35	.03
2032	Gummed coated, Assortment No. 4, Half-squares,	. .35	.03
2033	Gummed coated, Assortment No. 5, Half-squares,	. .35	.03
2034A	Gummed coated, Assortment No. 6 A, Half-squares,	. .35	.03
2034B	Gummed coated, Assortment No. 6 B, Half-squares,	. .35	.03
2035	Gummed coated, Assortment No. 7, Half-squares,	. .35	.03
2036	Ungummed engine colored, assorted colors, Equi. Tri.,	.12	.02
2037	Gummed engine colored, assorted colors, Equi. Tri.,	. .30	.03
2038	Ungummed coated, Assortment No. 1, Equi. Tri.,	. .18	.02
2039	Ungummed coated, Assortment No. 2, Equi. Tri.,	. .18	.02
2040	Ungummed coated, Assortment No. 3, Equi. Tri.,	. .18	.02
2041	Ungummed coated, Assortment No. 4, Equi. Tri.,	. .18	.02
2042	Ungummed coated, Assortment No. 5, Equi. Tri.,	. .18	.02
2043A	Ungummed coated, Assortment No. 6 A, Equi. Tri.,	. .18	.02
2043B	Ungummed coated, Assortment No. 6 B, Equi. Tri.,	. .18	.02
2044	Ungummed coated, Assortment No. 7, Equi. Tri.,	. .18	.02
2045	Gummed coated, Assortment No. 1, Equi. Tri.,	. .35	.03
2046	Gummed coated, Assortment No. 2, Equi. Tri.,	. .35	.03
2047	Gummed coated, Assortment No. 3, Equi. Tri.,	. .35	.03
2048	Gummed coated, Assortment No. 4, Equi. Tri.,	. .35	.03
2049	Gummed coated, Assortment No. 5, Equi. Tri.,	. .35	.03
2050A	Gummed coated, Assortment No. 6A, Equi. Tri.,	. .35	.03
2050B	Gummed coated, Assortment No. 6 B, Equi. Tri.,	. .35	.03
2051	Gummed coated, Assortment No. 7, Equi. Tri.,	. .35	.03
2052	Ung'd engine col'd, assorted colors, Obtuse-angled Tri.,	.12	.02
2053	Gum'd engine col'd, assorted colors, Obtuse-angled Tri.,	.30	.03
2054	Ungummed coated, Assortment No. 1, Obtuse-angled Tri.,	.18	.02
2055	Ungummed coated, Assortment No. 2, Obtuse-angled Tri.,	.18	.02
2056	Ungummed coated, Assortment No. 3, Obtuse-angled Tri.,	.18	.02
2057	Ungummed coated, Assortment No. 4, Obtuse-angled Tri.,	.18	.02

	Price, per	Envelope.	Postage.
2058 Ungummed coated, Assortment No. 5, Obtuse-angled Tri.,	\$0.18		\$0.02
2059A Ungummed coated, Assortment No. 6 A, Obtuse-angled Tri.,	.18		.02
2059B Ungummed coated, Assortment No. 6 B, Obtuse-angled Tri.,	.18		.02
2060 Ungummed coated, Assortment No. 7, Obtuse-angled Tri.,	.18		.02
2061 Gummed coated, Assortment No. 1, Obtuse-angled Tri.,	.35		.03
2062 Gummed coated, Assortment No. 2, Obtuse-angled Tri.,	.35		.03
2063 Gummed coated, Assortment No. 3, Obtuse-angled Tri.,	.35		.03
2064 Gummed coated, Assortment No. 4, Obtuse-angled Tri.,	.35		.03
2065 Gummed coated, Assortment No. 5, Obtuse-angled Tri.,	.35		.03
2066A Gummed coated, Assortment No. 6 A, Obtuse-angled Tri.,	.35		.03
2066B Gummed coated, Assortment No. 6 B, Obtuse-angled Tri.,	.35		.03
2067 Gummed coated, Assortment No. 7, Obtuse-angled Tri.,	.35		.03
2068 Ungummed engine colored, assorted colors, Scalene Tri.,	.12		.02
2069 Gummed engine colored, assorted colors, Scalene Tri.,	.30		.03
2070 Ungummed coated, Assortment No. 1, Scalene Tri.,	.18		.02
2071 Ungummed coated, Assortment No. 2, Scalene Tri.,	.18		.02
2072 Ungummed coated, Assortment No. 3, Scalene Tri.,	.18		.02
2073 Ungummed coated, Assortment No. 4, Scalene Tri.,	.18		.02
2074 Ungummed coated, Assortment No. 5, Scalene Tri.,	.18		.02
2075A Ungummed coated, Assortment No. 6 A, Scalene Tri.,	.18		.02
2075B Ungummed coated, Assortment No. 6 B, Scalene Tri.,	.18		.02
2076 Ungummed coated Assortment No. 7, Scalene Tri.,	.18		.02
2077 Gummed coated, Assortment No. 1, Scalene Tri.,	.35		.03
2078 Gummed coated, Assortment No. 2, Scalene Tri.,	.35		.03
2079 Gummed coated, Assortment No. 3, Scalene Tri.,	.35		.03
2080 Gummed coated, Assortment No. 4, Scalene Tri.,	.35		.03
2081 Gummed coated, Assortment No. 5, Scalene Tri.,	.35		.03
2082A Gummed coated, Assortment No. 6 A, Scalene Tri.,	.35		.03
2082B Gummed coated, Assortment No. 6 B, Scalene Tri.,	.35		.03
2083 Gummed coated, Assortment No. 7, Scalene Tri.,	.35		.03
2084 Ungummed engine colored, assorted colors, Rhombus,	.12		.02
2085 Gummed engine colored, assorted colors, Rhombus,	.30		.03
2086 Ungummed coated, Assortment No. 1, Rhombus,	.18		.02
2087 Ungummed coated, Assortment No. 2, Rhombus,	.18		.02
2088 Ungummed coated, Assortment No. 3, Rhombus,	.18		.02
2089 Ungummed coated, Assortment No. 4, Rhombus,	.18		.02
2090 Ungummed coated, Assortment No. 5, Rhombus,	.18		.02
2091A Ungummed coated, Assortment No. 6 A, Rhombus,	.18		.02
2091B Ungummed coated, Assortment No. 6 B, Rhombus,	.18		.02
2092 Ungummed coated, Assortment No. 7, Rhombus,	.18		.02
2093 Gummed coated, Assortment No. 1, Rhombus,	.35		.03
2094 Gummed coated, Assortment No. 2, Rhombus,	.35		.03
2095 Gummed coated, Assortment No. 3, Rhombus,	.35		.03
2096 Gummed coated, Assortment No. 4, Rhombus,	.35		.03
2097 Gummed coated, Assortment No. 5, Rhombus,	.35		.03
2098A Gummed coated, Assortment No. 6 A, Rhombus,	.35		.03
2098B Gummed coated, Assortment No. 6 B, Rhombus,	.35		.03
2099 Gummed coated, Assortment No. 7, Rhombus,	.35		.03
2100 Ungummed engine colored, assorted colors, Oblongs,	.12		.02
2101 Gummed engine colored, assorted colors, Oblongs,	.30		.03
2102 Ungummed coated, Assortment No. 1, Oblongs,	.18		.02

		Price, per envelope.	Postage.
2103	Ungummed coated, Assortment No. 2, Oblongs,	.18	.02
2104	Ungummed coated, Assortment No. 3, Oblongs,	.18	.02
2105	Ungummed coated, Assortment No. 4, Oblongs,	.18	.02
2106	Ungummed coated, Assortment No. 5, Oblongs,	.18	.02
2107A	Ungummed coated, Assortment No. 6 A, Oblongs,	.18	.02
2107B	Ungummed coated, Assortment No. 6 B, Oblongs,	.18	.02
2108	Ungummed coated, Assortment No. 7, Oblongs,	.18	.02
2109	Gummed coated, Assortment No. 1, Oblongs,	.35	.03
2110	Gummed coated, Assortment No. 2, Oblongs,	.35	.03
2111	Gummed coated, Assortment No. 3, Oblongs,	.35	.03
2112	Gummed coated, Assortment No. 4, Oblongs,	.35	.03
2113	Gummed coated, Assortment No. 5, Oblongs,	.35	.03
2114A	Gummed coated, Assortment No. 6 A, Oblongs,	.35	.03
2114B	Gummed coated, Assortment No. 6 B, Oblongs,	.35	.03
2115	Gummed coated, Assortment No. 7, Oblongs,	.35	.03
2116	Ungummed coated, Assortment No. 1, Circles,	.18	.02
2117	Ungummed coated, Assortment No. 2, Circles,	.18	.02
2118	Ungummed coated, Assortment No. 3, Circles,	.18	.02
2119	Ungummed coated, Assortment No. 4, Circles,	.18	.02
2120	Ungummed coated, Assortment No. 5, Circles,	.18	.02
2121A	Ungummed coated, Assortment No. 6 A, Circles,	.18	.02
2121B	Ungummed coated, Assortment No. 6 B, Circles,	.18	.02
2122	Ungummed coated, Assortment No. 7, Circles,	.18	.02
2123	Gummed coated, Assortment No. 1, Circles,	.35	.03
2124	Gummed coated, Assortment No. 2, Circles,	.35	.03
2125	Gummed coated, Assortment No. 3, Circles,	.35	.03
2126	Gummed coated, Assortment No. 4, Circles,	.35	.03
2127	Gummed coated, Assortment No. 5, Circles,	.35	.03
2128A	Gummed coated, Assortment No. 6 A, Circles,	.35	.03
2128B	Gummed coated, Assortment No. 6 B, Circles,	.35	.03
2129	Gummed coated, Assortment No. 7, Circles,	.35	.03
2130	Ungummed coated, Assortment No. 1, Half-circles,	.18	.02
2131	Ungummed coated, Assortment No. 2, Half-circles,	.18	.02
2132	Ungummed coated, Assortment No. 3, Half-circles,	.18	.02
2133	Ungummed coated, Assortment No. 4, Half-circles,	.18	.02
2134	Ungummed coated, Assortment No. 5, Half-circles,	.18	.02
2135A	Ungummed coated, Assortment No. 6 A, Half-circles,	.18	.02
2135B	Ungummed coated, Assortment No. 6 B, Half-circle,	.18	.02
2136	Ungummed coated, Assortment No. 7, Half-circles,	.18	.02
2137	Gummed coated, Assortment No. 1, Half-circles,	.35	.03
2138	Gummed coated, Assortment No. 2, Half-circles,	.35	.03
2139	Gummed coated, Assortment No. 3, Half-circles,	.35	.03
2140	Gummed coated, Assortment No. 4, Half-circles,	.35	.03
2141	Gummed coated, Assortment No. 5, Half-circles,	.35	.03
2142A	Gummed coated, Assortment No. 6 A, Half-circles,	.35	.03
2142B	Gummed coated, Assortment No. 6 B, Half-circles,	.35	.03
2143	Gummed coated, Assortment No. 7, Half-circles,	.35	.03

THE PARQUETRY CASE.

For the convenience of kindergartners using Parquetry Papers in considerable quantities we have made a box or case of wood and pasteboard neatly covered with strong cloth. It is about eighteen inches long, thirteen wide and two deep.

The inside is divided into thirty-five small compartments, each large enough to contain 500 pieces of the papers and arranged with reference to accommodating the five tones of the standards and grays. The partitions may be removed and spaces enlarged for holding Sticks, Beads, Pegs, Rings and Tablets.

Price, *\$1.00

PAPERS FOR STRINGING.

EACH ENVELOPE CONTAINS 1000 PIECES OF ONE FORM AND COLOR.

		Price, per envelope.	Postage.
2144 R.	Ungummed engine colored Squares, Red,	. . . \$0.12	\$0.02
2144 O.	Ungummed engine colored Squares, Orange,	. . . .12	.02
2144 Y.	Ungummed engine colored Squares, Yellow,	. . . .12	.02
2144 G.	Ungummed engine colored Squares, Green,	. . . .12	.02
2144 B.	Ungummed engine colored Squares, Blue,	. . . .12	.02
2144 V.	Ungummed engine colored Squares, Violet,	. . . .12	.02
2144 W.	Ungummed engine colored Squares, White,	. . . .12	.02
2144 N.	Ungummed engine colored Squares, Black,	. . . .12	.02
2145 R.	Ungummed engine colored Circles, Red,	. . . .12	.02
2145 O.	Ungummed engine colored Circles, Orange,	. . . .12	.02
2145 Y.	Ungummed engine colored Circles, Yellow,	. . . .12	.02
2145 G.	Ungummed engine colored Circles, Green,	. . . .12	.02
2145 B.	Ungummed engine colored Circles, Blue,	. . . .12	.02
2145 V.	Ungummed engine colored Circles, Violet,	. . . .12	.02
2145 W.	Ungummed engine colored Circles, White,	. . . .12	.02
2145 N.	Ungummed engine colored Circles, Black,	. . . .12	.02

MOUNTING SHEETS FOR PARQUETRY.

Separate sheets are much more convenient than books for mounting paper cutting and we offer white bristol board ruled in one-inch squares and perforated at one end for tying. As some patterns are arranged around a central point and others around a central square there is a demand for two styles of ruling. Style No. 1 is ruled with a horizontal line and a vertical line crossing at the center of the sheet. Style No. 2 is so ruled that the lines form a square in the center of the sheet. The designs made with the tablets of the Seventh Gift are reproduced on these sheets of mounting paper with the parquetry papers. The designs laid with the sticks and rings of the Eighth and Ninth Gifts are reproduced with paper strips and rings, and the designs made with the wooden lentils are reproduced with the square and round paper dots. After a sheet has been mounted and is partially dry it should be pressed between two sheets of blotting paper under a weight.

UNRULED MOUNTING SHEETS.

		Price.	Postage.
75	12 leaves, 8 x 8, white Bristol,	. . . . \$0.12	\$0.05
76	12 leaves, 7 x 7, white Bristol,	. . . . .08	.04
215	30 leaves, 10 x 10, manilla paper,	. . . . .25	.10
216	100 leaves, 10 x 10, white Bristol, punched at the back for tying into covers,	. . . . .1.25	.55

RULED MOUNTING SHEETS.

79	12 leaves, 7 x 9, white Bristol, Style No. 1 or No. 2,	. . . .10	.05
80	12 leaves, 9 x 11, white Bristol, Style No. 1 or No. 2,	. . . .12	.06

For explanation of Style No. 1 and No. 2, see the above.

MUCILAGE CUPS AND BRUSHES.

82	12 small glass cups with screw covers, for mucilage or paste,	*.48	
83	12 camel's hair brushes,	.30	.02

The glass cups cannot be sent by mail.

EIGHTH GIFT.

STICKS FOR STICK LAYING.

This gift consists of wooden sticks, which are cut to various lengths and used to teach numerical proportions, and for producing elementary rectilinear forms preparatory to drawing. For this purpose we offer a very neat square stick, much preferable to the irregularly rounded stick heretofore used, as it will lie just as placed.

PLAIN STICKS.

PLAIN STICKS.										Price.	Postage.
90	1000 sticks, 5 inches long, plain,	.	.	.	.	.	.	.	.	\$0.20	\$0.11
91	1000 " 4 " " " " " " " " " " " "	.	.	.	.	.	.	.	.	.18	.09
92	1000 " 3 " " " " " " " " " " " "	.	.	.	.	.	.	.	.	.15	.09
93	1000 " 2 " " " " " " " " " " " "	.	.	.	.	.	.	.	.	.12	.05
94	1000 " 1 " " " " " " " " " " " "	.	.	.	.	.	.	.	.	.08	.03
95	A paper box with 1000 sticks, assorted from 1 in. to 5 inches,									.20	.08
96	A polished wooden box, with five compartments, containing 1500 sticks, assorted lengths, from 1 to 5 inches . . .									*.40	

COLORED STICKS.

These sticks are prepared by a process insuring very beautiful colors.

[illegible]

In accordance with suggestions from various kindergartners, there is a demand for sticks cut to the diagonals of various figures, and we add several new lengths. When colored sticks are used in the even lengths it is better to order the diagonals in plain wood color.

PLAIN STICKS, DIAGONALS.

[illegible]

NINTH GIFT.

RINGS FOR RING LAYING.

This Gift consists of whole, half and quarter rings for laying figures which involve circles. We furnish whole rings soldered at the joints and also those that are unsoldered.

110	A box containing 12 whole rings each, 1 inch, 1½ inch and 2 inches diameter, 18 half rings each, and 12 quarter rings above sizes, making 126 pieces, with the whole rings neatly soldered.	Price.	Postage.
		\$0.65	\$0.15
111	Same as above, not soldered.	.50	.15

MRS. HAILMANN'S GUMMED PAPER RINGS, AND STRIPS.

The favor accorded Parquetry as an occupation supplementing the Seventh Gift suggested the application of the same feature to the Eighth and Ninth Gifts, so as to make permanent the designs formed with Sticks, Rings and Lentiis. We make whole rings in one-inch, one and one-half, and two-inch sizes, which may be cut to any required portions of the full circle as required, also straight strips which can be readily cut to the required lengths. With this material any of the designs which have been laid with sticks and rings may be reproduced on mounting sheets.

112	500 rings, six standard colors, with shade and tint of each,	Price.	Postage.
	1, 1½ and 2 inches,	\$0.40	\$0 04
115	300 strips, 5 inches long, colors as above,	.10	.04

For Mrs. Hailmann's "Lentiis" and "Gummed Paper Dots" see index or catalogue numbers 458 to 459A.

TENTH GIFT OR OCCUPATION. DRAWING.

The materials for this Gift are slates and paper ruled in equal squares, the slates being used first and then the paper. The slates are ruled on one side in perfect quarter-inch squares, with a margin which separates the ruled part from the frame. This method of ruling is a great convenience in drawing from dictation, because with it the child always has a definite corner or margin from which to count. The reverse side of the slate is plain and the frame is protected with braid, so that it is noiseless. We also carry a line of slates, six by nine inches, which are dotted in quarter-inch squares, as some kindergartners prefer a dotted surface.

MARGINAL RULED SLATES.

117	1 slate, 7 x 11, noiseless, marginal ruling,	Price.	*\$0.20
118	1 slate, 6 x 9, " " " " " " " "	.18	*.18
118A	1 slate, 6 x 9, " dotted, " " " " " " " "	.18	*.18

RULED DRAWING PAPER.

Our special drawing paper, made with a pencil surface, is printed from engraved plates in ruled squares, with a margin on each page, a combination which makes a very desirable article.

		Price.	Postage.
119	12 drawing books, 8 x 11, 12 leaves, ¼ inch squares,	\$1.00	\$0.32
120	12 drawing books, 8 x 11, 12 leaves, 1-6 inch squares,	1.00	.32
121	12 drawing books, 8 x 11, 12 leaves, ½ inch squares,	1.00	.32
122	12 drawing books, 7 x 8, 12 leaves, ¼ inch squares,	.75	.25
123	12 drawing books, 7 x 8, 12 leaves, 1-6 inch squares,	.75	.25
124	12 drawing books, 7 x 8, 12 leaves, ½ inch squares,	.75	.25
125	50 sheets paper, 8 x 11, ruled both sides, ¼ inch squares,	.35	.11
126	50 sheets paper, 8 x 11, ruled both sides, 1-6 inch squares,	.35	.11
127	50 sheets paper, 8 x 11, ruled both sides, ½ inch squares,	.35	.11
131	25 sheets paper, 17 x 22, ruled both sides, entire surface, ¼ inch squares,	.50	.20
132	25 sheets paper, 17 x 22, ruled both sides, entire surface, 1-6 inch squares,	.50	.20
133	25 sheets paper, 17 x 22, ruled both sides, entire surface, ½ inch squares,	.50	.20
134	25 sheets, 17 x 22, ruled one side, entire surface, ¼ in. squares,	.45	.20
135	25 sheets, 17 x 22, ruled one side, entire surface, 1-6 in. squares,	.45	.20
136	25 sheets, 17 x 22, ruled one side, entire surface, ½ in. squares,	.45	.20

DOTTED DRAWING PAPER.

We also have a line of dotted drawing paper and books in half-inch squares for those kindergartners and primary school teachers who prefer a dotted rather than a netted surface for drawing.

	Price.	Postage.
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[illegible]

Samples of our drawing paper will be mailed free to any kindergartner or primary school teacher on application.

For plain drawing paper see the School Aids part of this catalogue, as per index.

COMBINATION METALLIC BLACKBOARD.

This board has a slated surface on a metal ground, and its white metallic lines are finer and more durable than any which can be painted on a blackboard. Chalk will not cling to the painted lines and they are a fruitful source of imperfections in the drawing. For this reason our metallic blackboard is particularly recommended by kindergartners, after several years of trial. The board is framed in ash and both sides are slated. One side is ruled in one-inch squares, with a margin, the reverse being left plain for general work.

139 One combination metallic blackboard, 24 x 30, inside. Price, *\$3.50

ELEVENTH GIFT OR OCCUPATION
PERFORATING.

PAPER.

		PAPER.	Price.	Postage.
140	50 sheets, 8 x 11, ruled one side, $\frac{1}{4}$ inch squares, margin, .		\$0 25	\$0.11
141	50 “ 8 x 11, ruled one side, 1-6 inch squares, margin, .		.25	.11
142	50 “ 8 x 11, ruled one side, $\frac{1}{4}$ inch squares, margin, .		.25	.11
143	50 “ heavy paper, $7\frac{1}{2}$ x 10, plain, . . . . .		.20	.11

CARDBOARD.

144	50 cards, 4 x 4 in., six colors, netted, $\frac{3}{4}$ in. squares, margin,	.25	.07
145	50 " 4 x 4 in., six colors, netted, $\frac{1}{4}$ in. squares, margin,	.25	.07
145A	50 " 4 x 4 in., white netted, $\frac{1}{4}$ inch squares, margin,	.25	.07
145B	50 " 4 x 4 in., white netted, $\frac{3}{8}$ inch squares, margin,	.25	.07

BRISTOL BOARD, RULED ON ONE SIDE.

146	25	sheets	white, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{4}$ inch squares, no margin,	. . .	.15	.08
147	25	"	white, $5\frac{1}{2} \times 7\frac{1}{2}$, 1-6 inch squares, no margin,	. . .	.15	.08
148	25	"	white, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{8}$ inch squares, no margin,	. . .	.15	.08
149	25	"	tinted ast'd tints, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{4}$ in. squares, no margin,	. . .	.15	.08
150	25	"	tinted ast'd tints, $5\frac{1}{2} \times 7\frac{1}{2}$, 1-6 in. squares, no margin,	. . .	.15	.08
151	25	"	tinted ast'd tints, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{8}$ in. squares, no margin,	. . .	.15	.08
152	25	"	white, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin.	. . .	.25	.08
153	25	"	white, 7 x 9 inches, 1-6 inch squares, no margin,	. . .	.25	.08
154	25	"	white, 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin,	. . .	.25	.08
155	25	"	tinted, 7 x 9 inches, $\frac{1}{4}$ inch squares, no margin,	. . .	.25	.08
156	25	"	tinted, 7 x 9 inches, 1-6 inch squares, no margin,	. . .	.25	.08
157	25	"	tinted, 7 x 9 inches, $\frac{1}{8}$ inch squares, no margin,	. . .	.25	.08
158	25	"	white, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{4}$ inch, with margin,	. . .	.20	.08
159	25	"	" $5\frac{1}{2} \times 7\frac{1}{2}$, 1-6 " " "	. . .	.20	.08
161	25	"	tinted, $5\frac{1}{2} \times 7\frac{1}{2}$, $\frac{1}{4}$ " " "	. . .	.20	.08
161A	25	"	" $5\frac{1}{2} \times 7\frac{1}{2}$, 1-6 inch, with margin,	. . .	.20	.08
163	25	"	white, 7 x 9, $\frac{1}{4}$ " " "	. . .	.35	.12
164	25	"	" 7 x 9, 1-6 " " "	. . .	.35	.12
166	25	"	tinted, 7 x 9, $\frac{1}{4}$ " " "	. . .	.35	.12

			Price.	Postage.
167	25 sheets tinted, 7 x 9, 1-6 inch, with margin,	. . .	\$0.35	\$0.12
169	25 " white, plain, not ruled, 7 x 9 inches,	. . .	.25	.12
170	25 " tinted, plain, not ruled, 7 x 9 inches,	. . .	.25	.12
171	12 perforating needles, handles 2 inches long,	. . .	.35	.02
172	1 perforating needle, handle 2 inches long,	. . .	.03	.01

Unless otherwise ordered we send our No. 1 size perforating needle, which is made specially strong and of low temper, for the use of the small children who may break a finer instrument. For finer work with older children and training classes we have Nos. 6 and 8, corresponding in size with the same numbers of sewing needles, and in these two sizes of needles we furnish handles three inches long when so ordered, but the two-inch handles will be sent in all cases unless the longer ones are designated.

		Price.	Postage.
173	12 perforating cushions,	\$1.50	\$0.58
174	1 perforating cushion,	.13	.05

The perforating cushions are made of fine felt, extra heavy and with strong cardboard backs.

TWELFTH GIFT OR OCCUPATION. EMBROIDERY.

There is no part of the kindergarten course which gives the children more real pleasure than the embroidery which can be carried on indefinitely. At first their little hands have trouble in managing the card, needle and thread, but because the child loves the work he carefully and patiently overcomes the mechanical difficulties, and by and by is able to express himself in beautiful designs which are a study both in form and color. The additions and improvements which are constantly being made in the material used render this occupation more and more fascinating.

"PERFORATED" SEWING CARDS

These cards are termed "Perforated" to distinguish them from our "Pricked" Cards. The demand for longer stitches, coarser threads and larger needles has called for larger holes in the cards. When the attempt is made to produce the large hole by pricking with a pointed needle in the ordinary way a very unsightly and inconvenient burr is produced on the back of the card which interferes with the work in sewing. In the "Perforated" cards each hole is produced by punching out a minute disk of the paper so that both sides are practically alike and the thread works smoothly. A simple series of designs is now offered and the number and variety will be increased whenever such are suggested as seem to warrant the addition of them to those here shown.

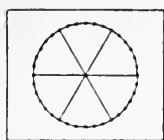
Figures 1, 2, 3, 10, 11, etc. to 21 show the principal or first intention of the several arrangements of holes in this series of cards, and 1a, 1b, 1c, 2a, 2b, 2c, etc., represent some of the modifications which can be sewed on the cards. As the edges of a "Perforated" hole are alike on both sides of the card one arrangement of holes will often furnish right and left designs by reversing the card.

178 100 "perforated" cards, white, assorted patterns from the following numbered plate, 1 to 21.

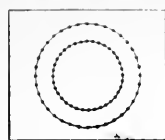
No. 178 covers all the different patterns of perforations as represented in the following designs from 1 to 21. Hence in ordering say No. 178 perforated cards, six cards each 1, 2, 3, 10, 12, 17, etc. thus indicating the number wanted of each pattern of perforation included under the general number 178.



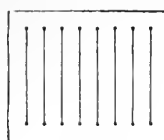
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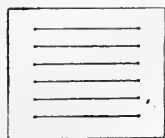
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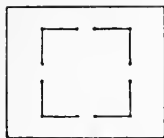
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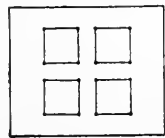
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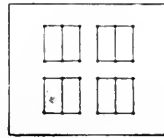
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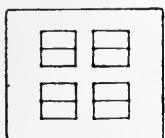
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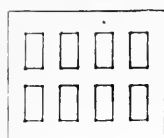
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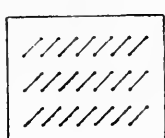
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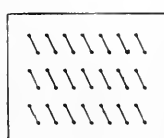
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16



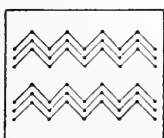
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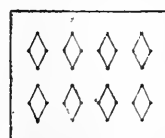
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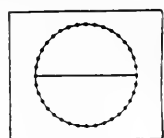
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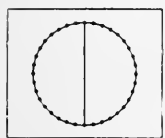
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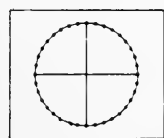
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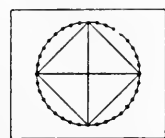
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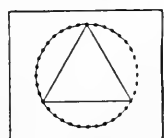
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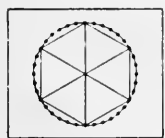
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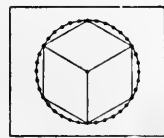
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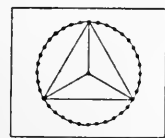
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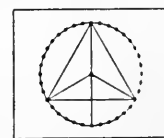
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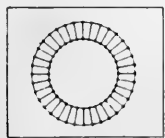
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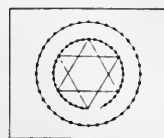
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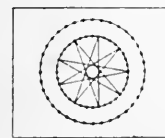
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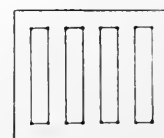
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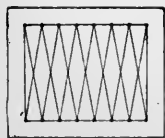
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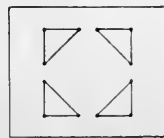
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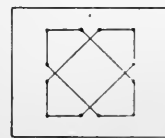
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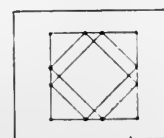
10b



12a

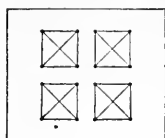


12b

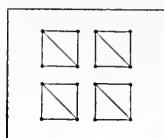


12c

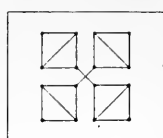
" Perforated " Sewing Cards.



13a



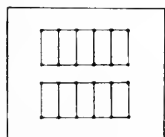
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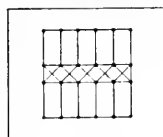
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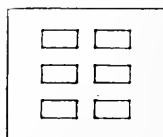
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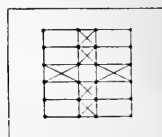
14b



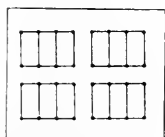
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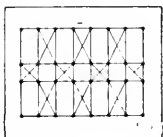
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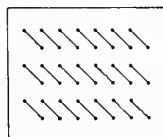
15b



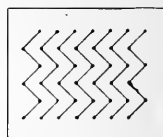
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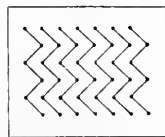
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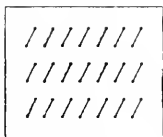
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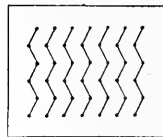
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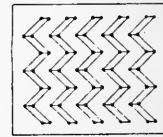
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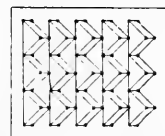
18a



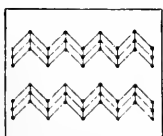
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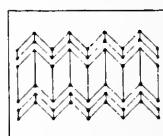
19a



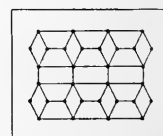
19b



20a



20b



21a

THE PRICKED CARDS.

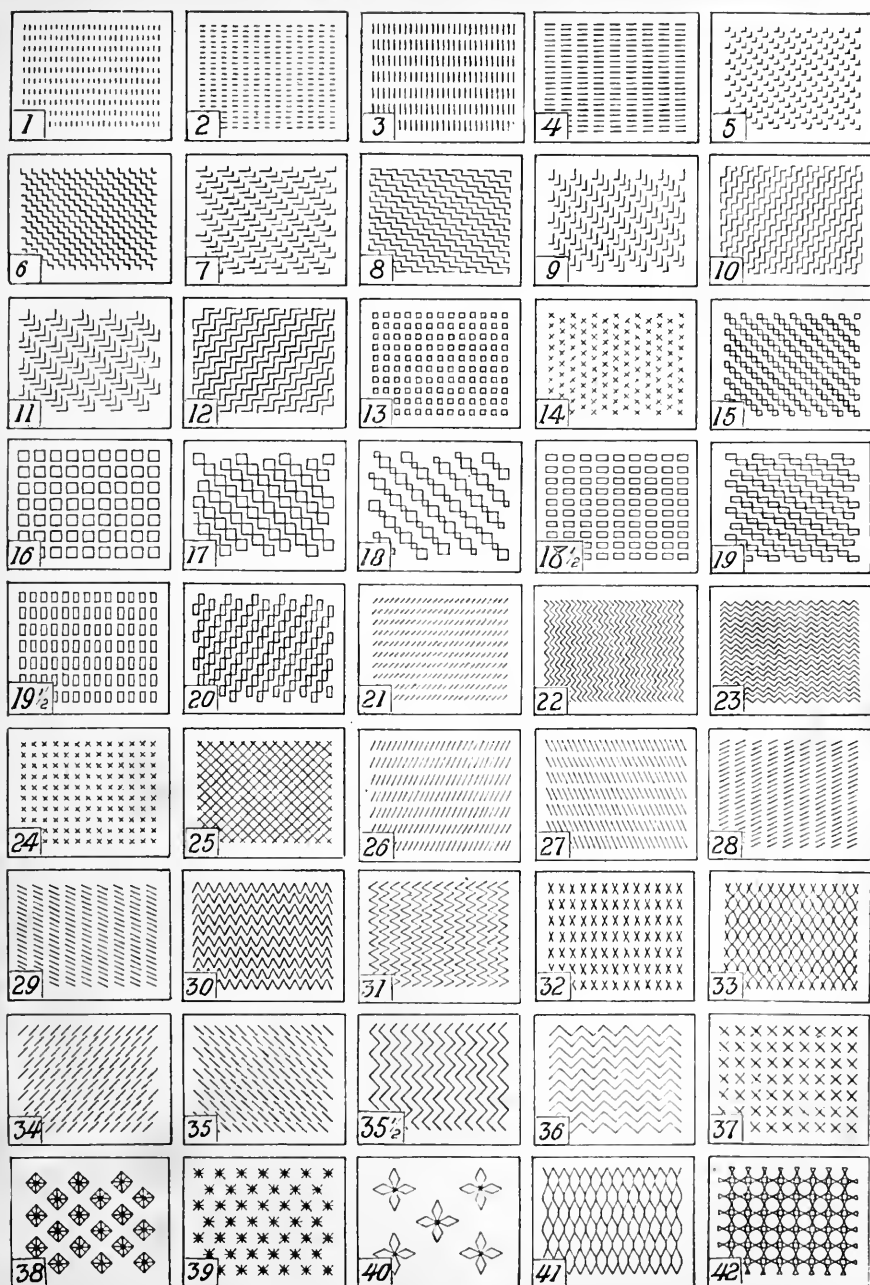
The fifty-seven designs shown on the following adjacent plates embrace a very elaborate series of sewing, based on the German school of embroidery. American kindergartners have materially abridged the number to be used in a course, and several years ago certain Massachusetts kindergartners made a selection which we have always been glad to recommend, comprising the following numbers: 3-4-11-12-16-17-19½-20-18½-19-34-35-35½-36-37-26-27-28-29-30-31-32-39-40.

Afterward another selection was made by a lady connected with a prominent Western normal school, which has also proved decidedly popular.

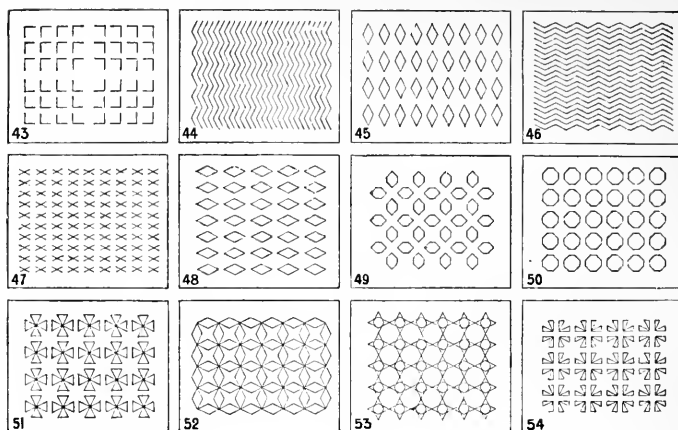
This second list comprises 28 designs, to be used in the following order: 3-4-43-16-19½-18½-34-35-35½-36-37-39-26-27-44-30-32-45-28-29-31-46-47-48-40-42-49-50.

The fifty-seven designs are produced from forty-seven patterns of pricking, as for instance, numbers 1-2-13-24-25 are all made with one pattern of pricking, as also 3-19½-32-33; and 16-37; and 4-18½-47. In ordering state how many cards are required for each *embroidered design*, according to the number on the plates; remember that there may be more cards of one style of *pricking* than the number ordered of any *one embroidered design*.

The advantage afforded to teacher and pupil by ready pricked cards is at the present day generally recognized.



No. 180, Pricked Sewing Cards.



Price. Postage.

180 100 pricked cards, white $3\frac{3}{4} \times 4\frac{1}{2}$, assorted as may be ordered

from diagrams. \$1.00 \$0.10

No. 180 covers all the different patterns of pricked cards represented on the plates; hence, in ordering, each pattern must be designated by its design number.

So, in ordering, say, "No. 180 pricked cards," and then give the number wanted of each design number.

Price. Postage.

181 100 white cards, $3\frac{3}{4} \times 4\frac{1}{2}$ perforated regularly in 1-6 in. squares, \$1.00 \$0.10

182 100 tinted cards, $3\frac{3}{4} \times 4\frac{1}{2}$ perforated regularly in 1-6 in. squares, 1.00 .10

183 100 white cards, $3\frac{3}{4} \times 4\frac{1}{2}$ not pricked,25 .10

184 100 tinted cards, $3\frac{3}{4} \times 4\frac{1}{2}$ not pricked,30 .10

185 12 white cards, 6 x 8, perforated in $\frac{1}{4}$ inch squares,35 .05

185A 12 " " 6 x 6, " " $\frac{1}{4}$ " "25 .04

186 12 " " 7 x 9, " " $\frac{1}{3}$ " "35 .05

187 12 " " 6 x 8, " " 1-6 " "35 .05

188 12 tinted " 6 x 8, " " $\frac{1}{4}$ " "35 .05

189 12 " " 7 x 9, " " $\frac{1}{3}$ " "35 .05

190 12 " " 6 x 8, " " 1-6 " "35 .05

Aside from these numbers we always have in stock fine Bristol-card in sheets

OUTLINE EMBROIDERY CARDS.

Price. Postage.

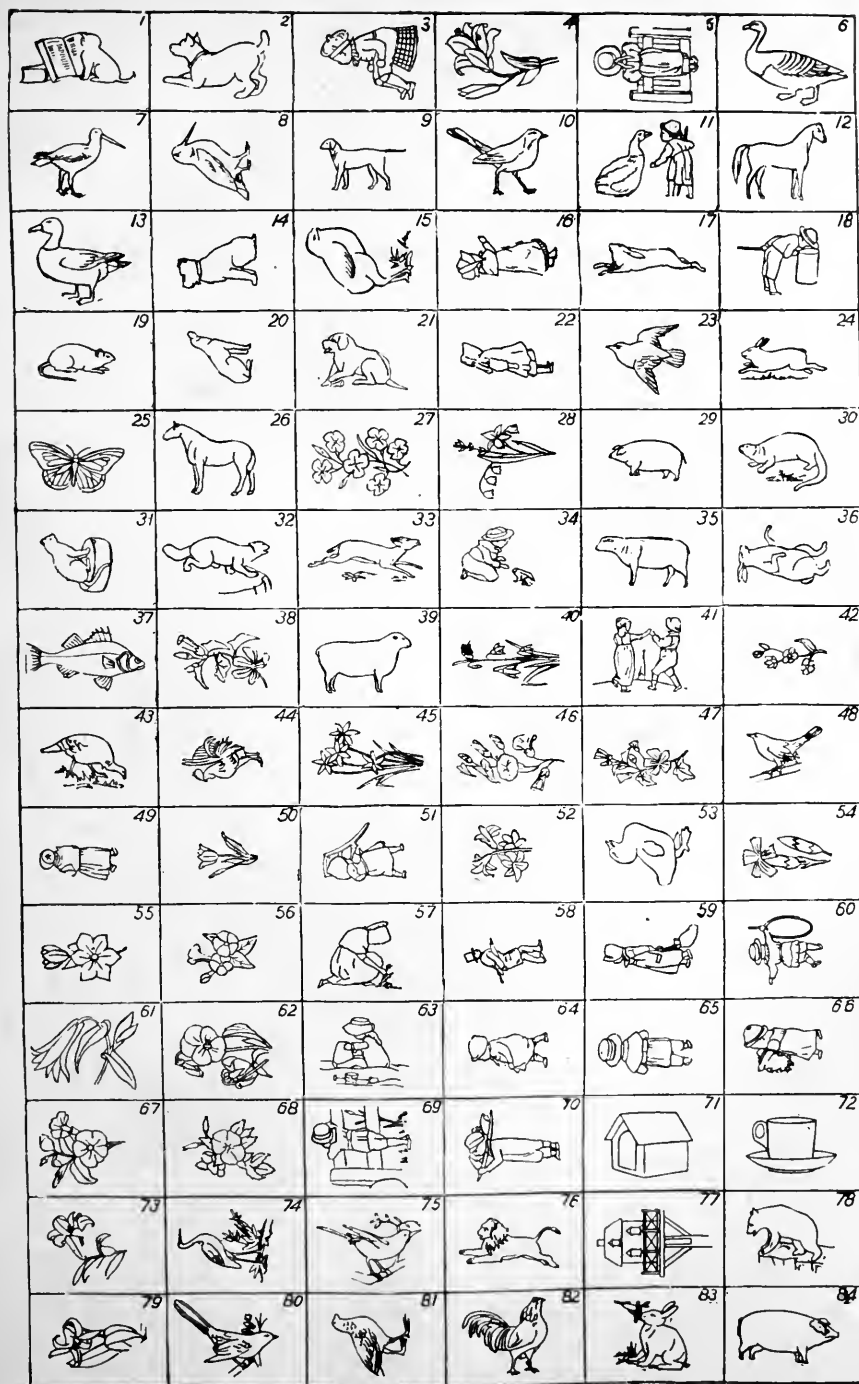
191 12 white cards, 4 x 5 $\frac{1}{2}$, with designs for outline embroidery, selected from the diagrams on the following pages, . . . \$0.25 \$0.04

192 12 white cards, 5 $\frac{1}{2}$ x 7 $\frac{1}{2}$, with designs for outline embroidery, selected to order from the designs,35 .04

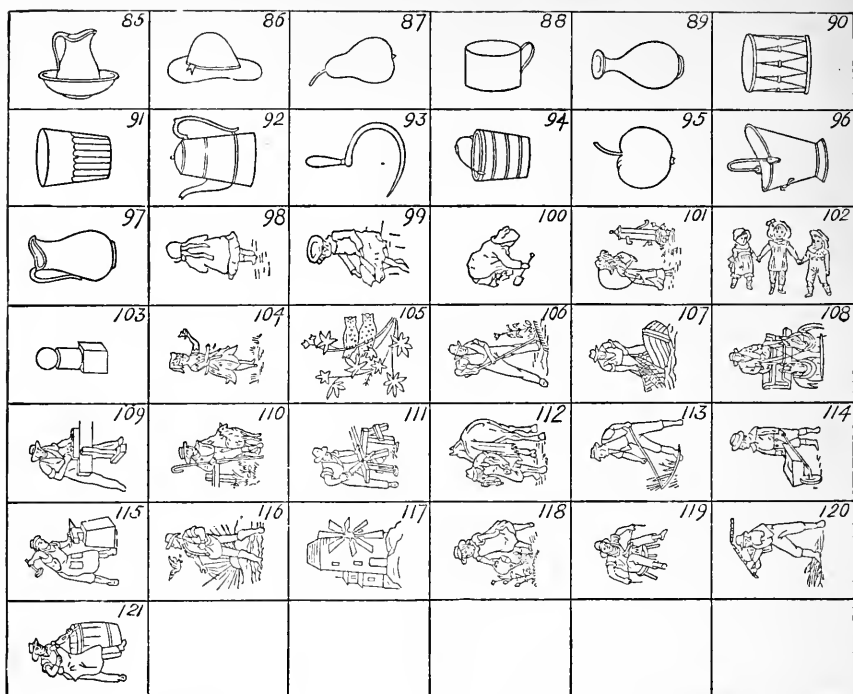
Nos. 191 and 192 cover all the patterns of design cards as represented in the diagrams, and hence in ordering each design must be designated by its number.

Thus in ordering say "No. 191 Design Cards, one card each, 21-24-39-etc." or if the larger cards shown in the following pages are required say "No. 192 Design Cards two each 205-252-271, etc."

☛ FOR OTHER SEWING CARDS SEE INDEX AND SCHOOL AIDS DEPARTMENT OF THIS CATALOGUE.



No. 191, Outline Embroidery Cards, 4 x 5 1-2 Inches.



EMBROIDERY SILK.

We have a line of Educational Silk on spools, for outline embroidery which conforms to the Bradley Color Scheme. It has a soft finish, does not split and will fray less in working than any other material. The assortment consists of the following colors, in addition to White, Black and Gray:—

R.—R. T.—R. S.—O.—O. T.—O. S.—Y.—Y. T.—Y. S.—G.—G. T.—G. S.—B.—B. T.—B. S.—V.—V. T.—V. S.

In ordering always designate the color wanted by its nomenclature and state how many spools of each color are desired. Be very definite that there may be no mistake.

		Price.	Postage.
194	1 spool,	\$0.06	
195	12 spools, assorted colors, . . . . .	.70	\$0.04

COLORED THREAD.

At the solicitation of many kindergartners with whom the cost of silk is an item to be considered, we have had made to order a quantity of cotton thread, soft and unfinished, in the following colors:—

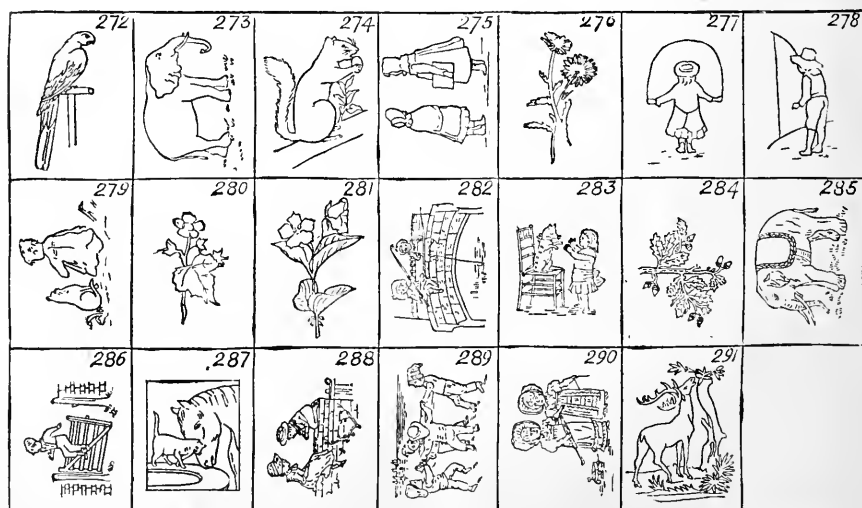
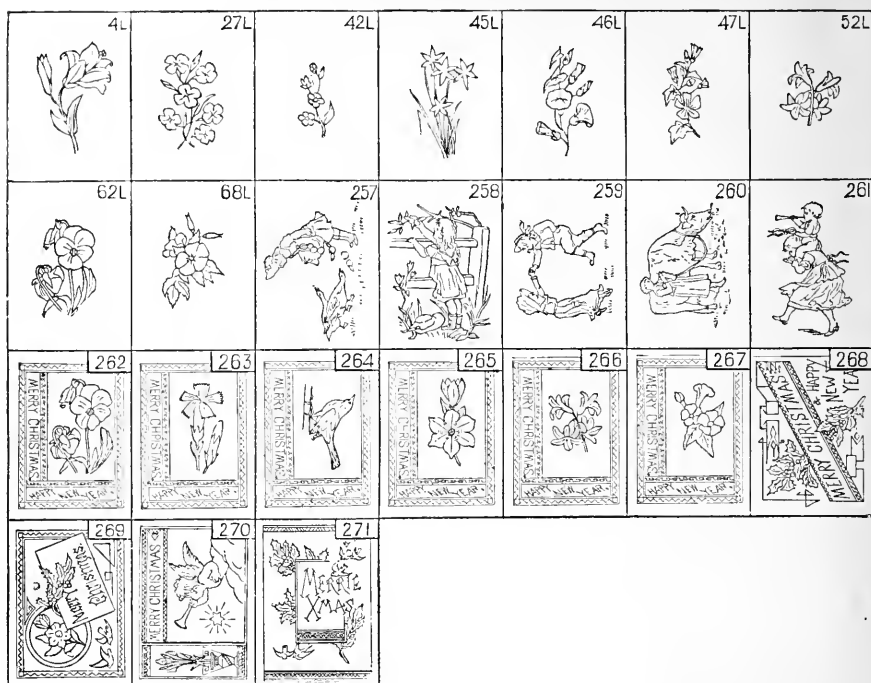
R.—O.—Y.—G.—B.—V.—R. T. 1.—O. S.—Y. O. S.—G. T.—G. S.—Y. G.—B. G. S.—R. V. S. 2.—V. R. T. 1.—Warm Gray 1—Cool Gray 2.

These spools contain many more yards of cotton than the others do of silk.

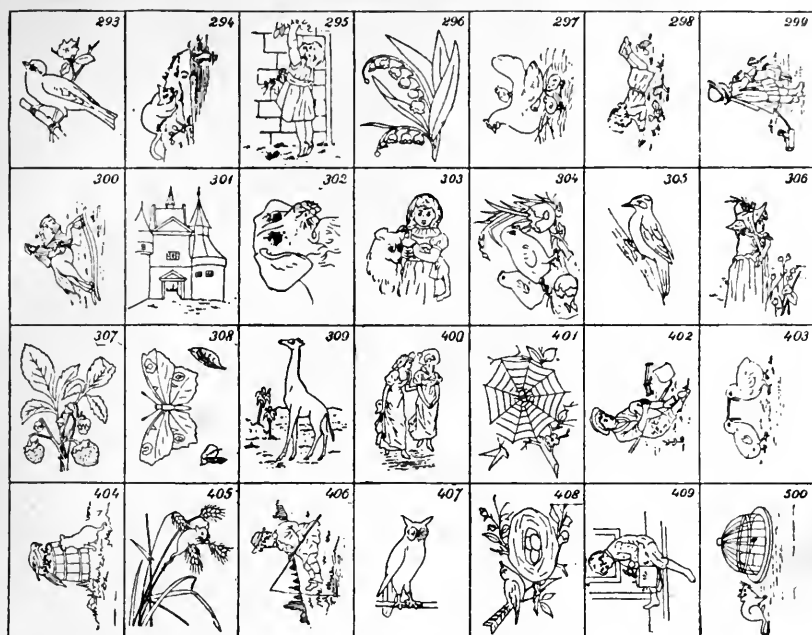
		Price.	Postage.
196	12 spools, assorted colors,	\$0.60	\$0.10



No. 192, Outline Embroidery Cards, 5 1-2 x 7 1-2 Inches.



No. 192, Outline Embroidery Cards, 5 1-2 x 7 1-2 Inches.



, WORSTEDS.

We offer a line of worsteds for the sewing, usually called Split Zephyrs, which are sometimes preferred to the silk or thread. In order to obtain the colors which best conform to our color scheme we buy imported wools of the finest quality. The assortment includes the six standards, with one tint and shade of each, three browns, two grays and black and white, listed as follows:—

R. T.—R.—R. S.—O. T.—O.—O. S.—Y. T.—Y.—Y. S.—G. T.—G.—G. S.—B. T.—B.—B. S.—V. T.—V.—V. S.—Light Brown—Medium Brown—Dark Brown—Gray 1—Gray 2—White—Black.

Price. Postage.

197 1 lap or skein. \$0.10 \$0.02

NEEDLES.

We furnish needles suitable for either silk, thread or worsted. These needles have long eyes, are easily threaded and the points are blunt. They are known by some dealers as rug or tapestry needles and are commonly called worsted needles. No. 23 is the coarser needle and most desirable for children's use. No. 25 is finer, being often preferred by kindergartners.

Price. Postage.

199 1 paper, containing 25 needles, \$0.10 \$0.01

THIRTEENTH GIFT OR OCCUPATION.

PAPER CUTTING.

For the occupation of paper cutting colored papers four or five inches square are used. Both "coated" and "engine colored" papers are put up in packages of one hundred pieces assorted according to the catalogue numbers on the next page. For the convenience of teachers we print a series of lines on one eighth of the square so that when folded to the right thickness the paper presents the netted

surface as shown in Fig. 1, which is a guide to the teacher or pupil in marking a design for cutting as shown in Fig. 2. In the following list they are designated as "ruled" while the plain squares are "unruled." If packages assorted differently from those designated as A. or B. are required, not less than sixteen of one assortment can be furnished.

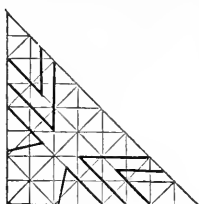


FIG. 1.

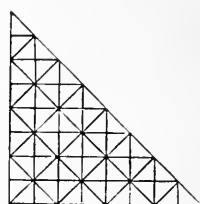


FIG. 2.

In the following list, Assortment A contains the six standards (R.—O.—Y.—G. B.—V.) with one tint and one shade of each and grays.

Assortment B, contains the intermediate hues (O.R.—R.O.—Y.O.—O.Y.—G.Y.—Y.G.—B.G.—G.B.—V.B.—B.V.—R.V.—V.R.) with one tint and one shade of each:—

			Price.	Postage.
200	100	Squares, 5 x 5, ruled, white paper,	\$0.40	\$0.05
201	100	" 5 x 5, ruled, engine colored, assorted colors, . . . . .	.45	.05
202 x	100	" 5 x 5, ruled, coated assortment A, . . . . .	.50	.05
202 z	100	" 5 x 5, ruled, coated assortment B, . . . . .	.50	.05
203	100	" 5 x 5, unruled, white paper, . . . . .	.10	.05
204	100	" 5 x 5, unruled, engine colored, assorted colors. . . . .	.15	.05
205 x	100	" 5 x 5, unruled, coated assortment A, . . . . .	.30	.05
205 z	100	" 5 x 5, unruled, coated assortment B, . . . . .	.30	.05
206	100	" 4 x 4, ruled, white paper, . . . . .	.40	.04
207	100	" 4 x 4, ruled, engine colored, assorted colors, . . . . .	.45	.04
208 x	100	" 4 x 4, ruled, coated, assortment A, . . . . .	.50	.04
208 z	100	" 4 x 4, ruled, coated, assortment B, . . . . .	.50	.04
209	100	" 4 x 4, unruled, white paper, . . . . .	.08	.04
210	100	" 4 x 4, unruled, engine colored, assorted colors, . . . . .	.12	.04
211 x	100	" 4 x 4, unruled, coated, assortment A, . . . . .	.20	.04
211 z	100	" 4 x 4, unruled, coated, assortment B, . . . . .	.20	.04
211 R	100	" 4 x 4, unruled, coated, Red, tints and shades, . . . . .	.20	.04
211 O	100	" 4 x 4, unruled, coated, Orange, tints and shades, . . . . .	.20	.04
211 Y	100	" 4 x 4, unruled, coated, Yellow, tints and shades, . . . . .	.20	.04
211 G	100	" 4 x 4, unruled, coated, Green, tints and shades, . . . . .	.20	.04
211 B	100	" 4 x 4, unruled, coated, Blue, tints and shades, . . . . .	.20	.04
211 V	100	" 4 x 4, unruled, coated, Violet, tints and shades, . . . . .	.20	.04
212 x	100	Equi. Tri., 4 x 4, coated, assortment A, . . . . .	.25	.03
212 z	100	" 4 x 4, coated, assortment B, . . . . .	.25	.03
212 R	100	" 4 x 4, coated, Red, tints and shades, . . . . .	.25	.03
212 O	100	" 4 x 4, coated, Orange, tints and shades, . . . . .	.25	.03
212 Y	100	" 4 x 4, coated, Yellow, tints and shades, . . . . .	.25	.03
212 G	100	" 4 x 4, coated, Green, tints and shades, . . . . .	.25	.03
212 B	100	" 4 x 4, coated, Blue, tints and shades, . . . . .	.25	.03
212 V	100	" 4 x 4, coated, Violet, tints and shades, . . . . .	.25	.03
213 x	100	Circles, 4 in. diam., coated, assortment A, . . . . .	.25	.03
213 z	100	" 4 in. diam., coated, assortment B, . . . . .	.25	.03
213 R	100	" 4 in. diam., coated, Red, tints and shades, . . . . .	.25	.03

				Price.	Postage.
213 O	100	"	4 in. diam., coated, Orange, tints and shades,	.25	.03
213 Y	100	"	4 in. diam., coated, Yellow, tints and shades,	.25	.03
213 G	100	"	4 in. diam., coated, Green, tints and shades,	.25	.03
213 B	100	"	4 in. diam., coated, Blue, tints and shades,	.25	.03
213 V	100	"	4 in. diam., coated, Violet, tints and shades,	.25	.03

The packages of "ENGINE COLORED PAPERS, ASSORTED COLORS" quoted above contains the following numbers which will be found in our sample books and includes special educational colors found in no other papers. These are the numbers :—

1 A—2 A—3 A—4 A—5 A—6 A.

1—2—3—4—5—6.

1 B—2 B—3 B—4 B—5 B—6 B.

7—8—9—10—11—12—13—14—15—16.

FOR RULED MOUNTING SHEETS see numbers 79 and 80, following Parquetry.

We have frequent calls for full sheets of colored paper, twenty by twenty-four inches, by mail, but we cannot forward them without injury, except in paste-board cylinders.

The following are the prices per sheet for the paper, including postage, and any number of sheets will be at the same rate :—

		Price and Postage.
220	One sheet coated paper, 20 x 24, any color in sample book,	\$0.04
221	One sheet silver paper, 20 x 24,	.08
222	One sheet gilt paper, 20 x 24,	.10
223	One sheet engine col'd paper, any selection from sample book,	.03

To each of these amounts five cents must be added for the cylinder, no matter how small the order.

Whoever orders papers should use our sample books and carefully read those pages in this catalogue which speak of The Bradley Color Outfit.

FOURTEENTH GIFT OR OCCUPATION. WEAVING.

In this occupation the material consists of a sheet of paper slitted into strips joined by a margin at each end, called a mat, and a series of similar strips which formerly were joined at one end and are therefore called a fringe, but which are now joined at both ends for security in handling. The fringe differs but little in appearance from the mat, except that in fine cutting there is no margin on the sides as in the mat.

Each of the following numbers indicates one package containing twelve mats and twelve fringes.

MATS 7 x 7 INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

999 R	Red, with tints and shades.	999 G	Green, with tints and shades.
999 O	Orange, with tints and shades,	999 B	Blue, with tints and shades.
999 Y	Yellow, with tints and shades,	999 V	Violet with tints and shades.
1000	R.—O.—Y.—G.—B.—V., with tints and shades and grays.		
1001 x	O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.		
1002 x	G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.		
1003 x	V.B.—B.V.—R.V.—V.R., with tints and shades and grays.		
1005	Black and white.	1006	Grays.

MATS 7 x 7 INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

1009 R	Red, with tints and shades.	1009 G	Green, with tints and shades.
1009 O	Orange, with tints and shades.	1009 B	Blue, with tints and shades.
1009 Y	Yellow, with tints and shades.	1009 V	Violet, with tints and shades.

- 1010 R.—O.—G.—Y.—B.—V., with tints and shades and grays.
 1011 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1012 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1013 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1015 Black and white. 1016 Grays.

MATS 7 x 7 INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

- 1019 R Red, with tints and shades. 1019 G Green, with tints and shades.
 1019 O Orange, with tints and shades. 1019 B Blue, with tints and shades.
 1019 Y Yellow, with tints and shades. 1019 V Violet, with tints and shades
 1020 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1021 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1022 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1023 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1025 Black and white. 1026 Grays.

MATS 7 x 7 INCHES, SLITS $\frac{1}{2}$ AND $\frac{1}{4}$ INCH ALTERNATING.

- 1029 R Red, with tints and shades. 1029 G Green, with tints and shades.
 1029 O Orange, with tints and shades. 1029 B Blue, with tints and shades.
 1029 Y Yellow, with tints and shades. 1029 V Violet, with tints and shades.
 1030 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1031 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1032 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1033 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1035 Black and white. 1036 Grays.

MATS 7 x 5 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1039 R Red, with tints and shades. 1039 G Green, with tints and shades.
 1039 O Orange, with tints and shades. 1039 B Blue, with tints and shades.
 1039 Y Yellow, with tints and shades. 1039 V Violet, with tints and shades.
 1040 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1041 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1042 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1043 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1045 Black and white. 1046 Grays.

MATS 7 x 5 INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

- 1049 R Red, with tints and shades. 1049 G Green, with tints and shades.
 1049 O Orange, with tints and shades. 1049 B Blue, with tints and shades.
 1049 Y Yellow, with tints and shades. 1049 V Violet, with tints and shades.
 1050 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1051 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1052 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1053 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1055 Black and white. 1056 Grays.

MATS 7 x 5 INCHES, SLITS 1-6 INCH WIDE.

- 1059 R Red, with tints and shades. 1059 G Green, with tints and shades.
 1059 O Orange, with tints and shades. 1059 B Blue, with tints and shades.
 1059 Y Yellow, with tints and shades. 1059 V Violet, with tints and shades.
 1060 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1061 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1062 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1063 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1065 Black and white. 1066 Grays.

MATS 7 x 5 INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1069 R** Red, with tints and shades. **1069 G** Green, with tints and shades.
1069 O Orange, with tints and shades. **1069 B** Blue, with tints and shades.
1069 Y Yellow, with tints and shades. **1069 V** Violet, with tints and shades.
1070 R.—O.—Y.—G.—B.—V., with tints and shades and grays
1071 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1072 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1073 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1075 Black and white. **1076** Grays.

MATS 7 x 5 INCHES, SLITS $\frac{1}{2}$ AND $\frac{1}{4}$ INCHES ALTERNATING.

- 1079 R** Red, with tints and shades. **1079 G** Green, with tints and shades.
1079 O Orange, with tints and shades. **1079 B** Blue, with tints and shades.
1079 Y Yellow, with tints and shades. **1079 V** Violet, with tints and shades.
1080 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1081 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1082 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1083 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1085 Black and white. **1086** Grays.

MATS 7 x 5 INCHES, SLITS $\frac{1}{2}$ AND 1-6 INCHES ALTERNATING.

- 1089 R** Red, with tints and shades. **1089 G** Green, with tints and shades.
1089 O Orange, with tints and shades. **1089 B** Blue, with tints and shades.
1089 Y Yellow, with tints and shades. **1089 V** Violet, with tints and shades.
1090 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1091 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1092 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1093 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1095 Black and white. **1096** Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1099 R** Red, with tints and shades. **1099 G** Green, with tints and shades.
1099 O Orange, with tints and shades. **1099 B** Blue, with tints and shades.
1099 Y Yellow, with tints and shades. **1099 V** Violet, with tints and shades.
1100 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1101 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1102 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1103 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1105 Black and white. **1106** Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS $\frac{1}{4}$ INCH WIDE.

- 1109 R** Red, with tints and shades. **1109 G** Green, with tints and shades.
1109 O Orange, with tints and shades. **1109 B** Blue, with tints and shades.
1109 Y Yellow, with tints and shades. **1109 V** Violet, with tints and shades.
1110 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
1111 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
1112 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
1113 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
1115 Black and white. **1116** Grays.

MATS $4\frac{3}{4}$ x $4\frac{3}{4}$ INCHES, SLITS 1-6 INCH WIDE.

- 1119 R** Red, with tints and shades. **1119 G** Green, with tints and shades.
1119 O Orange, with tints and shades. **1119 B** Blue, with tints and shades.
1119 Y Yellow, with tints and shades. **1119 V** Violet, with tints and shades.

- 1120 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1121 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1122 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1123 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1125 Black and white. 1126 Grays.

MATS $4\frac{3}{4} \times 4\frac{3}{4}$ INCHES, SLITS $\frac{1}{2}$ INCH WIDE.

- 1129 R Red, with tints and shades. 1129 G Green, with tints and shades.
 1129 O Orange, with tints and shades. 1129 B Blue, with tints and shades.
 1129 Y Yellow, with tints and shades. 1129 V Violet, with tints and shades.
 1130 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1131 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1132 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1133 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1135 Black and white. 1136 Grays.

MATS $4\frac{3}{4} \times 4\frac{3}{4}$ INCHES, SLITS $\frac{1}{2}$ AND $\frac{1}{4}$ INCH ALTERNATING.

- 1139 R Red, with tints and shades. 1139 G Green, with tints and shades.
 1139 O Orange, with tints and shades. 1139 B Blue, with tints and shades.
 1139 Y Yellow, with tints and shades. 1139 V Violet, with tints and shades.
 1140 R.—O.—Y.—G.—B.—V., with tints and shades and grays.
 1141 x O.R.—R.O.—Y.O.—O.Y., with tints and shades and grays.
 1142 x G.Y.—Y.G.—B.G.—G.B., with tints and shades and grays.
 1143 x V.B.—B.V.—R.V.—V.R., with tints and shades and grays.
 1145 Black and white. 1146 Grays.

MRS. HAILMANN'S GRADED MATS.

All these are 4 x 4 inches with cut surface 3 x 3 inches, and are cut in both engine colored and coated papers.

ENGINE COLORED PAPERS, ASSORTED COLORS AND TINTS.

Each package of the Engine Colored Papers contains 50 mats and corresponding fringes.

- 1200 Mats with 5 strips each. 1203 Mats with 8 strips each.
 1201 Mats with 6 strips each. 1204 Mats with 9 strips each.
 1202 Mats with 7 strips each. 1205 Mats with 10 strips each.

EDUCATIONAL COATED PAPERS.

Each package of the coated papers contains twenty-five mats and corresponding fringes, assorted in six standard spectrum colors, with one tint and shade of each and neutrals and grays and black and white.

- 1210 Mats with 5 strips each. 1213 Mats with 8 strips each.
 1211 Mats with 6 strips each. 1214 Mats with 9 strips each.
 1212 Mats with 7 strips each. 1215 Mats with 10 strips each.

In addition to No. 1215, as above, the 10-strip mats are cut in the spectrum hues intermediate between the standards, with tints and shades, etc., as follows:—
 1216 Mats with 10 strips each with intermediate hues, O. R.—R. O.—Y. O.—O. Y. G. Y.—Y. G.—B. G.—G. B.—V. B.—B. V.—R. V.—V. R., with one tint and one shade each and grays and black and white.

Mrs. Hailmann's Graded mats cannot be furnished otherwise than as described either in style of cutting or assortment of colors.

If mats in the other sizes are wanted in different cuttings or assortments of colors, they will be furnished as follows, but time must be allowed for the preparation:—

Twelve packages of one kind at AN ADVANCE OF ONE-QUARTER THE PRICE.

Six or more packages, but less than twelve, at AN ADVANCE OF ONE-HALF THE PRICE.

Less than six packages, DOUBLE THE CATALOGUE PRICE.

In ordering any special lots be sure and state just what is wanted in mats and what in fringes, and if both mats and fringes are wanted say MATS AND FRINGES.

For example: We have frequently received orders for twelve mats of a given assortment, when both mats and fringes are wanted. In lots cut to order we furnish twenty-four mats at the same price as twelve mats and twelve fringes.

BE SURE YOU SAY JUST EXACTLY WHAT YOU MEAN VERY DEFINITELY, AND WE WILL TRY TO DO OUR PART FAITHFULLY.

CIRCULAR WEAVING MATS.

In response to requests from leading kindergartners we have prepared a line of circular weaving mats which are specially adapted to holiday work for the more advanced pupils. A circular explaining this material will be sent on application.

WEAVING NEEDLES.



FIG. 1.

From the earliest split stick used by Froebel the weaving needle has been subject to many improvements, and those needles which we offer the public are the result of long experience in using weaving materials and much experimenting in their manufacture.



FIG. 2.

In the above illustrations the two needles most commonly used are shown. Fig. 1 shows the Bradley Patent needle which is constructed with special reference to securing a hold on the paper, with facility in threading.

Fig. 2 is the Ball patent needle which has been on the market many years.

PRICES OF MATS, FRINGES AND NEEDLES.

To avoid needless repetition the price of the different mats and fringes mentioned on the preceding pages and those of the weaving portfolios, the needles and two boxes of home-weaving material are grouped together as follows:—

	Price.	Postage.
Each package of 12 mats and fringes, 7 x 7 and 7 x 5,	\$0.15	\$0.03
Each package, 4½ x 4½, . . . . .	.10	.03
Each package, Mrs. Hailmann's graded mats in engine colored papers, (50 each), . . . . .	.25	.04
Each package, Mrs Hailmann's graded mats in educational coated papers, (25 each), . . . . .	.15	.02
For gold mats or fringes, 7 x 7, the charge will be one cent per piece, extra.		
For gold mats or fringes, 7 x 5, the charge will be one-half cent per piece, extra.		
For silver mats or fringes, 7 x 7, the charge will be one-half cent per piece extra, and for 7 x 5, one-quarter cent per piece, extra.		
388 12 weaving portfolios, 7½ x 10, for the 7 x 7 mats,	\$0.40	\$0.25
389 12 weaving portfolios, 5 x 7, for the 4½ x 4½ mats, . . . .	.30	.15
390 A box containing 24 mats and 24 fringes, 7 x 5, assorted colors, ½ inch slits, and patent weaving needle, . . . .	.35	.05
390A Box containing 24 mats and 24 fringes, 7 x 5, assorted colors, 1-6 inch slits, and patent weaving needle, . . . .	.35	.05
391 12 Steel weaving needles plain, waxed for putting in last strip, . . . . .	.20	.01
392 1 Steel needle, as above, . . . . .	.02	.01

					Price.	Postage.
393	12	Bradley's patent weaving needles,	.	.	.50	.02
394	1	" " " " "	.	.	.05	.01
395	12	Ball's patent weaving needles,	.	.	.60	.03
396	1	" " " " "	.	.	.05	.01
394A	12	Bradley's improved weaving needles,	.	.	.45	.02
394B	1	" " " " "	.	.	.04	.01

The Bradley improved weaving needle is substantially made and proves itself an excellent needle for the price.

BOOK MARK STRIPS.

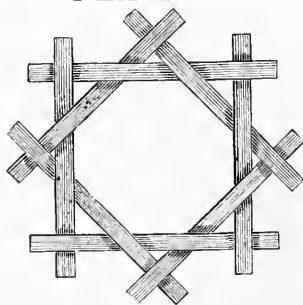
ALL PACKAGES CONTAIN 100 STRIPS, COATED PAPER, 20 INCHES LONG.

				Price.	Postage.
397	Intermediate spectrum hues, $\frac{1}{8}$ inch wide,	.	.	\$0.10	\$0.02
397A	Standard colors, their shades and tints and gray, $\frac{1}{8}$ inch wide,	.	.	.10	.02
397B	Standard colors and gray $\frac{1}{8}$ inch wide,	.	.	.10	.02
398	Intermediate spectrum hues, 1-6 inch wide,	.	.	.10	.02
398A	Standard colors and their shades and tints, 1-6 inch wide,	.	.	.10	.02
398B	Standard colors and gray, 1-6 inch wide,	.	.	.10	.02
399	Assorted colors, $\frac{1}{4}$ inch wide,	.	.	.15	.03
399A	Standard colors, with their shades and tints, $\frac{1}{4}$ inch wide,	.	.	.15	.03
399B	Standard colors and gray, $\frac{1}{4}$ inch wide,	.	.	.15	.03
400	Assorted colors, $\frac{3}{8}$ inch wide,	.	.	.15	.03
400A	Standard colors, with their shades and tints, $\frac{3}{8}$ inch wide,	.	.	.15	.03
400B	Standard colors and gray, $\frac{3}{8}$ inch wide,	.	.	.15	.03
401	Assorted colors, $\frac{1}{2}$ inch wide,	.	.	.20	.03
401A	Standard colors, with their shades and tints, $\frac{1}{2}$ inch wide,	.	.	.20	.03
401B	Standard colors and gray, $\frac{1}{2}$ inch wide,	.	.	.20	.03

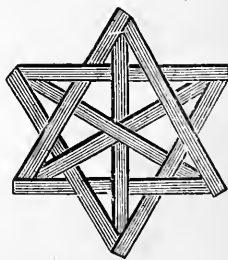
We cannot furnish small lots of these strips in special colors, because of the waste of time and paper necessitated. But we will cut to order any assortment of colors in the half-inch strips amounting to forty-six packages at regular prices, or twenty-three and one-half packages at one quarter more than the usual charge. Special orders outside these limits we decline to fill.

FIFTEENTH GIFT.

PLAITING THE DISCONNECTED SLATS.



We offer an elegant hard wood and hand-cut slat of uniform width and thickness, either plain or colored. The quality of these goods is superior to anything to be found elsewhere and the prices are exceptionally low. The colored slats command special attention wherever known. These are not like the ordinary soft wood colored splints formerly in use for



fancy work and now sometimes offered for the schools and the kindergarten.

				Price.	Postage.
410	50	slats, 10 inches long, hard wood, plain,	.	\$0.10	\$0.03
411	100	slats, 10 inches long, hard wood, plain,	.	.15	.05
412	50	slats, 10 inches long, hard wood, in six colors,	.	.15	.03
413	100	slats, 10 inches long, hard wood in six colors,	.	.25	.05

SIXTEENTH GIFT.

THE GONIGRAPH OR JOINTED SLATS.

As this gift is used to represent different lines, angles and figures, and is not especially designed for use as a measure, the jointed slats which are each, one decimeter long are made as narrow as is consistent with reasonable strength, and hence some care in their use is necessary to avoid breaking in the hands of little children. Nos. 420, 421 and 422 are of the above style. No. 424 has sixteen links and is practically the same as No. 421, except that the links are about twice as wide and much thicker, thus rendering them more durable in careless hands. No. 425 has ten links like those in No. 424, and is practically a jointed meter.

420	4 sets of links; 1 each of 4 links, 6 links, 8 links, 16 links, each link 1 decimeter long. The whole in a box,	Price.	Postage.
		\$0.40	\$0.04
421	1 set of 16 links,	.20	.02
422	1 set of 8 links,	.10	.01
424	1 set of 16 links, extra heavy,	.20	.01
425	1 set of 10 links, extra heavy,	.12	.02

Nearly 50 new designs for this gift in "Paradise of Childhood."

SEVENTEENTH GIFT.

PAPER STRIPS FOR LACING.

We furnish paper strips of various colors, twenty inches long and half an inch and an inch wide, to be folded lengthwise and used to represent a variety of fanciful forms by bending, twisting and interlacing them according to certain rules.

ALL PACKAGES CONTAIN 100 STRIPS ENGINE COLORED PAPER, 20 INCHES LONG.

		Price.	Postage.
430	Assorted colors, $\frac{1}{2}$ inch wide,	\$0.15	\$0.03
430A	Six colors, $\frac{1}{2}$ inch wide,	.15	.03
431	Assorted colors, 1 inch wide,	.20	.05
431A	Six colors, 1 inch wide,	.20	.05

ALL PACKAGES CONTAIN 100 STRIPS COATED PAPER, 20 INCHES LONG.

		Price.	Postage.
432	Assorted colors, $\frac{1}{2}$ inch wide,	\$0.20	\$0.03
432A	Standard colors, with tints and shades and gray, $\frac{1}{2}$ inch wide,	.20	.03
432B	Standard colors and gray, $\frac{1}{2}$ inch wide,	.20	.03
433	Assorted colors, 1 inch wide,	.25	.05
433A	Standard colors, with tints and shades and gray, 1 inch wide,	.25	.05
433B	Standard colors and gray, 1 inch wide,	.25	.05

For other widths see Book Mark Strips, Fourteenth Gift, and for diagrams consult "Paradise of Childhood."

EIGHTEENTH GIFT OR OCCUPATION.

FOLDING PAPER.

The material for paper folding consists of square, rectangular, triangular and circular pieces, with which variously shaped objects are formed.

		Price.	Postage.
440	100 Squares, 4 x 4, engine colored, assorted colors,	\$0.12	\$0.04
441	100 Oblongs, 4 x 2, engine colored, assorted colors,	.10	.02
442	100 Equilateral Triangles, 4 inches on one side, engine colored, assorted colors,	.20	.03
443	100 Circles, 4 inches diameter, engine colored, ast'd colors,	.20	.03
444	100 Equilateral Triangles, 4 inches on side, white paper,	.15	.03
445	100 Circles, 4 inches diameter, white paper,	.20	.04

The description of our coated papers, four inches square, will be found under Cutting Paper in the Thirteenth Gift. For the diagrams pertaining to the folding see "Paradise of Childhood."

PAPER FOLDERS.

The tools listed under the Twentieth Gift for Clay Modeling are perfect little paper-folders.

NINETEENTH GIFT OR OCCUPATION.

PEAS OR CORK WORK.

Skeleton forms of objects are made with pointed sticks and soaked peas, or with cork cubes and pointed wires. The sticks are round and very thin, but are to be cut to lengths and pointed by the teacher or pupil. The pointed wires and cork cubes are more durable and convenient. The peas are soaked in water for eight or ten hours, and may be used with either wires or sticks.

		Price.	Postage.
448	1 pint selected peas,	\$0.12	\$0.14
449	1000 sticks, 5 inches long, . . . . .	.20	.07
450	A box containing 100 pointed wires of various lengths, as-sorted, 1 inch, 1½ inch, 2 inch, 2½ inch, 3 inch, 3½ inch, . . . . .	.10	.03
451	A box containing 1000 wires, assorted as above, . . . . .	.50	.09
452	A package of 100 cork cubes, . . . . .	.25	.01

The sticks used in this Gift are also put up in packages of 1000 in each length, as listed under the Eighth Gift. See diagrams in "Paradise of Childhood."

TWENTIETH GIFT OR OCCUPATION.

WOODEN MODELING TOOLS AND BOARDS.



FIG. 1.

Fig. 1 is a spatula of wood with blade rounded at one end and the handle pointed at the other end of the tool.



FIG. 2.

Fig. 2 is a somewhat similar flat tool, but one end is serrated for leveling off a surface, while the other end is rounded to a flat spoon-shape, very useful for many operations. These tools are practically all that a kindergarten child requires.

		Price	Postage.
454	1 dozen tools,	\$0.25	\$0.02
455	1 dozen boards, No. 1, 7 x 9; No. 2, 9 x 12	* 1.50	

BRICKS OF DRY CLAY.

456	1 brick of 5 pounds, artists' clay	*.25
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NEW PROCESS CLAY-FLOUR.

This material is the best quality of artists' clay, very finely powdered by a new process which insures the quickest and most perfect mixing, with but little handling, if the instructions on each package are followed.

The clay flour is packed in dust-tight boxes, wrapped and labeled with our imprint.

		Price.
457	1 box of 5 pounds,	*\$0.25
457A	1 box of 100 pounds,	4.00

"Clay Modeling in the Schoolroom" furnishes definite and valuable instruction in this occupation. See book list.

MRS. HAILMANN'S LENTILS.

ALL PACKAGES CONTAIN 1000 OF THE $\frac{1}{4}$ INCH LENTILS.

	Price.	Postage.
458 Square and round forms, assorted, in the six colors,	\$0.25	\$0.02
458A Square and round forms, assorted, light wood color, . . . . .	.25	.02
458B Square and round forms, assorted, dark wood color, . . . . .	.25	.02
458C Squares in the six colors, . . . . .	.25	.02
458D Circles in the six colors, . . . . .	.25	.02

GUMMED PAPER DOTS.

For making permanent the result of exercises with the lentils we have added round gummed paper dots of the same size as the lentils.

	Price.	Postage.
459 1000 Squares in envelopes, six colors,	\$0.15	\$0.02
459A 1000 Circles, . . . . .	.15	.02

PAPERS, STRAWS AND BEADS FOR STRINGING.

PAPERS.

Papers for stringing may be selected from the various assortment of colors and forms under the Parquetry Papers.

PLAIN STRAWS.

	Price.	Postage.
462 100 straws, 10 inches long,	\$0.10	\$0.05
463 1000 straws, $\frac{3}{4}$ inch long, in a box, . . . . .	.25	.05

COLORED STRAWS.

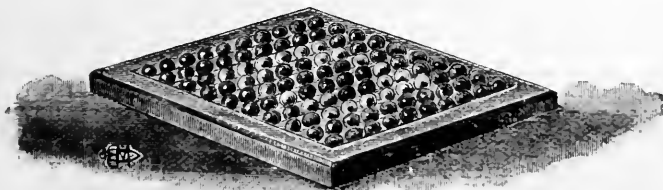
462C 100 straws, 10 inches long, in six colors, . . . . .	.15	.05
463C 1000 straws, $\frac{3}{4}$ inch long, in a box, . . . . .	.35	.05

WOODEN BEADS.

Each box contains six colors: R.—O.—Y.—G.—B.—V.

464 1 gross $\frac{1}{2}$ inch beads, (spheres), . . . . .	.40	.05
465 1000 $\frac{1}{2}$ inch beads, (spheres),	2 00	.30
470 1 gross Mrs. Hailmann's $\frac{1}{2}$ inch beads, (spheres, cubes and cylinders), . . . . .	.40	.07
470A 1000 Mrs. Hailmann's $\frac{1}{2}$ inch beads, (spheres, cubes and cylinders),	2.00	.40
470B 3 dozen Mrs. Hailmann's $\frac{1}{2}$ inch beads, (spheres, cubes and cylinders), . . . . .	.12	.02
470C 1 gross Mrs. Hailmann's $\frac{1}{2}$ inch beads, uncolored, (spheres, cubes and cylinders), . . . . .	.40	.07

BEAD AND PEG TILES.



This illustration shows the Bradley Bead Tile for use with Mrs. Hailmann's Beads. It is a nicely-finished hardwood board about six inches square, containing one hundred cups for receiving the half-inch spheres, No. 464, and is very effective for teaching number and form. Those teachers who have used this tile testify that it is an exceedingly desirable addition to the kindergarten equipment.

	Price.	Postage.
472 1 tile, without beads,	\$0.25	\$0.05

MRS. PUTNAM'S BUSY WORK TILES.

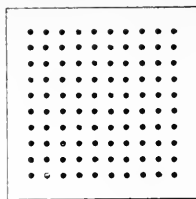


FIG. 1.

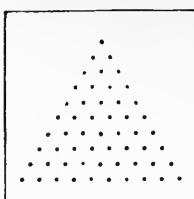


FIG. 2.

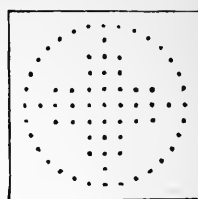


FIG. 3.

Each tile is a finely-finished board, six inches square, with holes drilled for the pegs, which are of various colors.

No. 1 has the holes arranged in half-inch squares, as seen in diagram, Fig. 1.

No. 2 has the holes in a triangle, as in Fig. 2, and No. 3 is represented in Fig. 3.

For general use the board and pegs are put up separately. For private use one board with pegs is put up in a paper box. Mention Mrs. Putnam's Busy Work Tiles when ordering, to avoid confusion.

		Price.	Postage.
474	1 tile, without pegs, No. 1, No. 2 or No. 3,	\$0.25	\$0.05
475	1000 pegs, six colors in a box,	.20	.04
476	1 tile, in box with pegs, No. 1, No. 2 or No. 3,	.35	.08

For a cheaper line of Primary Peg Boards and Pegs see the other department of this catalogue.

MOUNTING BOOKS

FOR KINDERGARTEN TRAINING CLASSES.

The line of mounting books here offered is the result of several years' experience in preparing books for Kindergarten Normal Schools on special orders, and seems to give very general satisfaction.

These books are made to fold together so that the leaves can be instantly spread across a table and the sequence of the work shown at a glance. The leaves are of heavy gray cardboard hinged with cloth, so as to fold into the covers or allow the whole number to be extended. The covers are of the best English black muslin, neatly embossed, with the names of the occupation stamped in gilt on the front and are provided with gray tapes for tying.

	Price.
Paper Cutting book, 42 leaves, 9 x 9 inches,	*\$1.25
Kindergarten Work book, 30 leaves, 9 x 11 inches,	*1.25
Paper Folding book, 16 leaves, 9 x 11 inches,	*.70
Sewing book, 16 leaves, 9 x 11 inches,	*.70
Weaving book, 20 leaves, 6 x 8 inches,	*.70
Pricking book, 20 leaves, 6 x 8 inches,	*.70

KINDERGARTEN TABLES AND CHAIRS.

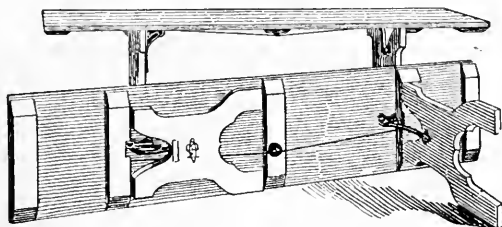
TABLES.

Our patented Kindergarten Tables embody several novel and valuable features which have been developed and perfected by expert mechanics.

One important feature peculiar to these tables is the uniformity and durability of the netted lines and the accuracy of the squares formed by them. These lines are produced by cutting very narrow deep and perfectly uniform channels into the wood and filling them with an enamel even more durable than the wood itself, thus accurately dividing the surface into perfect squares exactly one inch in size by fine black lines.

When the enamel has become hardened the surface of the table is finished perfectly level and finely polished, and these tables can be refinished indefinitely, even to replanning, without disturbing the lines. These qualities of accuracy and durability in the lines are peculiar to the Bradley tables.

Each table with folding legs is provided with our patent leg-brace, which gives perfect stability to the table when set up and allows the legs to be instantly folded against the top into a space about three inches thick, including top and legs, and as readily set up again without undue effort on the part of the teacher. The braces are so ingeniously constructed that they do not interfere with the knees of those children who sit near the legs. The illustration below shows one table set up ready for use and another lying on the floor, with one leg folded against the top, and the other leg in a convenient position to be folded with the least possible effort on the part of the teacher. When folded the legs are automatically locked against the top, so that they will not fall away in moving. Each table longer than six feet is furnished with our adjustable steel truss-rod, as shown in illustration, which allows the table to be made reasonably light and yet insures that it will never sag at the center by the constant weight of material and children's arms.



In tables No. 1 to No. 3 in the following price list the netted lines all stop at a marginal line entirely around the table, inside a beaded molding. Many kindergartners value highly this plain margin around the netted portion, to count and work from, and also consider the beaded molding very useful, because it furnishes a ledge for receiving the edge of the box cover in returning the gift blocks to their boxes, at the close of an exercise. The numbers from 10 to 17 are as accurately lined and as durably made as those with the marginal molding, and have all the other valuable features above described.

TABLES WITH MARGINAL MOLDING.

										Price.
No. 1	table,	4 feet long,	16 inches wide,	.	.	.	.	.	.	*\$8.00
No. 2	"	7 "	" 16 "	"	"	.	.	.	.	*10.00
No. 2½	"	8 "	" 16 "	"	"	.	.	.	.	*11.00
No. 3	"	6 "	" 30 "	"	"	.	.	.	.	*12.00

TABLES WITHOUT MARGINAL MOLDING.

										Price.
No. 10	table,	8 feet long,	30 inches wide,	.	.	.	.	.	.	*\$10.00
No. 11	"	6 "	" 30 "	"	"	.	.	.	.	*8.00
No. 12	"	8 "	" 16 "	"	"	.	.	.	.	*7.00
No. 13	"	6 "	" 16 "	"	"	.	.	.	.	*6.00
No. 14	"	3 "	" 16 "	"	"	.	.	.	.	*4.50
No. 15	"	30 in.	" 30 "	"	"	removable turned legs	.	.	.	*3.50
No. 16	"	4 ft.	" 16 "	"	"	.	.	.	.	*5.50
No. 17	"	9 "	" 16 "	"	"	.	.	.	.	*8.00

The above tables are made in two widths as indicated, and the highest is twenty-one inches, but the legs can be shortened two inches without injury and

we will shorten them one or two inches before shipping, when desired. The No. 15 table has four turned legs which screw into the top similar to piano legs and is twenty-two inches high but will be made shorter when so desired.

CHAIRS.

In the majority of our kindergartens a firm durable chair is desirable and for this our "solid chairs" are most economical, but where the amount of room is quite limited the folding chairs may be put away much more compactly during the games.

The solid chair is neat and durable, of hard wood with a bent back and varnished in the natural wood colors. In ordering please state whether No. 1, No. 2 or No. 3 is wanted. No. 1 chair is ten inches high; No. 2 twelve, and No. 3 fourteen.

Price per dozen, *\$6.50

IMPROVED FOLDING CHAIRS.

This chair is made expressly for us from special designs, being so constructed that there is no danger that it will tip forward and give the child a fall, as often happens with some folding chairs. It can be handled very readily, and as the cost is but little greater than that of the ordinary school chair many kindergartners prefer it. Like the tables it can be packed away in small compass, at a moment's notice. These chairs are well made and handsomely finished, the height of the seat being twelve inches from the floor.

Price, per dozen, *\$7.50

SQUARED ENAMELED CLOTH.

A beautiful, flat varnished cloth, accurately ruled and durable, with black background and red lines, forty-five inches wide. It is readily cleaned when soiled and can be made to protect almost any kind of school furniture. Only about three yards can be sent through the mails in one piece, so that if a larger quantity is wanted by mail the order must include directions for cutting.

Price, per yard, \$1.00; postage, \$0.30

A list of the Kindergarten Books which we publish and sell, the portraits of Froebel and Miss Peabody, together with various devices which are added to Kindergarten Material will be found in other departments of this catalogue.

School Aids Department.

SCRIPT SENTENCE BUILDER.

This consists of over two hundred tablets comprising sixty different words. They are printed on both sides in neat plain script, in accordance with the principles of good penmanship. The words have been selected with great care by competent educators and in all respects are superior in material and workmanship. Price, per box, 14 cents.

SENTENCE BUILDER.

In the style of type, the selection of the words and the general arrangement of capitals as well as the quality of material and workmanship, the same care has been bestowed that characterizes all our well-known goods. Price, per box 14 cents.

SCIENCE SENTENCE BUILDER.

This box contains eighty different words, all duplicated five times, except a few not often used. They are carefully chosen with the idea of teaching form, science and color, as well as language, and they comprise those most commonly used in the earliest lessons in those branches. The vocabulary here presented is a new one and fuller than has heretofore been used.

The words are well printed on both sides of substantial cardboard, in bold type which can be read at a considerable distance. Most of the nouns are put in the singular number on one side and in the plural on the other, and words which would naturally be used to begin sentences are printed on one side with a capital for the first letter.

Price, per box, 25 cents.

WORD BUILDER.

Each letter is printed on a separate card of good thickness, accurately cut to gauges and put into a neat, strong box of ample size for convenient use.

Each box contains more than two hundred pieces, comprising capitals and small letters, numerals and punctuation marks, assorted according to the general scheme used in fonts of type, and the same letter is on both sides of a tablet.

Price, per box, 12 cents.

WORD MAKING TABLETS.

This box contains a good selection of capitals, small letters and numerals, in more prominent type than the rest of the series, printed on both sides of tablets an inch square and assorted as in fonts of type, for word-making.

Price, per box, 25 cents.

LANGUAGE TABLETS.

This set of words comprises several hundred separate cards containing a word on each side and a small collection of separate letter-cards for making occasional work required in forming a sentence and not found in the collection.

Price, per box, 35 cents.

NUMBER BUILDER.

This box is in principle similar to the word and language tablets. It contains a liberal supply of the first ten numerals and the cipher, and the signs of addition, subtraction, multiplication, division and equality.

Price, per box, 12 cents.

KENDALL'S CHROMATIC NUMERAL FRAME.

No. 1, is an elegant frame with turned lower bar and improved screw and socket handle, durable in every way. There are twelve wires with twelve balls each, in the six standard colors, two wires of each color being placed together.

*Price, each, 75 cents.

No. 2, is in the same style as No. 1, but with ten wires of ten balls each, and three colors, red, yellow and blue.

*Price, each, 65 cents.

No. 3, is a square bar-frame, with pin and socket handle, well made and finished. It has twelve wires and one hundred and forty-four balls in six colors, the same as No. 1.

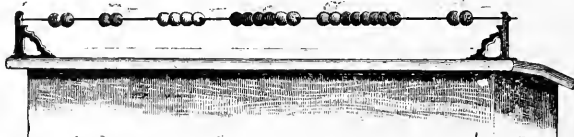
*Price, each, 65 cents.

No. 4, is in the same style as No. 3, and contains ten wires with one hundred balls in three colors, as in No. 2.

*Price, each, 50 cents.

All the numbers have heavy, well-straightened, polished, tin-plated wires, with polished balls and well-finished frames.

DESK NUMERAL FRAME.



This is a neat and durable device permanently attached to the desk as shown in the accompanying illustration. The regular size and style is adapted to a desk which is eighteen inches long, and twenty-four balls half an inch in diameter are furnished for each fixture. If other lengths of wires or other forms of beads than balls are required, write for full information. Each order will be accompanied with directions for applying to the desk.

Price, each, 20 cents; postage \$0.14

CUBICAL COUNTING BLOCKS.

We offer one-inch cubes, in boxes and in bulk, plain and in the six standard colors. These cubes represent the third kindergarten gift and can be used for the study of numbers and fractions as well as form and design.

Price. Postage.

1000 assorted colored cubes, in bulk,	*\$5.50	
1000 plain cubes, in bulk,	4.50	
100 colored cubes, in paper box,	.60	.30
100 plain cubes, in paper box,	.50	.30
27 colored cubes, in paper box,	.18	.10

PRIMARY COUNTING BLOCKS.

The design of this set is not only to serve as counters for the child, but also to teach form, size, comparison of volume, composition and division or analysis. It contains two hundred and forty-two blocks of exact dimensions, as indicated by the following list:—

48	pieces of No. 1,	which is a quarter brick,	1-2 x 1-2 x 1 inch.
48	" " " 2,	" " " half "	1-2 x 1 x 1 inch.
48	" " " 3,	" " " half "	1-2 x 1-2 x 2 inches.
48	" " " 4,	" " " whole "	1-2 x 1 x 2 inches.
48	" " " 5,	" " " 1 inch cube.	
2	" " " 6,	" " " 2 inch cube.	

The whole set, with directions, is nicely put up in a strong, finely-polished wooden box, with partitions. *Price, per box, \$1.25

LARGE PEGS FOR COUNTERS.

Wide-awake primary teachers are constantly on the alert for new objects to help them in number work. We are very fortunate in being able to offer them a line of large wooden pegs, an inch and a quarter long and an eighth of an inch square, made to represent a mammoth shoe-peg. We ship these pegs in six standard colors, a thousand in each box, at a price which makes them the cheapest counters that can be bought.

Price, in paper box, \$0.15; postage, \$0.09

PRIMARY PEG BOARDS.

A neat wooden board, about six inches square, with a hundred holes drilled in squares of half an inch, for use in arranging small colored pegs in a variety of artistic or symmetrical forms. We sell round pegs, about an inch long and in six colors, to go with the boards. We also furnish the ordinary shoe-peg in colors, at a less price. We ship the boards in bundles of one dozen each, and as it takes a hundred pegs to fill a board, two boxes, each holding a thousand pegs, are required for every bundle.

	Price.	Postage.
1 dozen boards,	*\$1.75	
1000 round pegs, in paper box,	.20	\$0.04
3000 square pegs, in paper box,	.15	.11

PARISH'S PRIMARY NUMBER TABLETS.

These tablets are printed on substantial cardboard, and in two sizes, one being four inches by two and the other five inches by two and a half. They have different combinations of blue and red dots and are intended for review purposes and to establish a clear idea of numbers and their relations in the minds of children in the lowest grades. The smaller set is used as a part of number work in the first half-year of school life and the box A contains ten tablets. The large set B consists of twelve tablets and is for use during the second half-year.

The advantage gained by using the tablets over the ordinary method of review by oral questions is that number appeals to sight instead of hearing, and leaves a more vivid impression.

With each set will be found suggestions for using the tablets.

	Price.
Set A, cardboard tablets, per envelope,	\$0.12
Set B, cardboard tablets, per envelope,	.15

DU SHANE'S FIGURE CARDS.

These cards have been prepared for primary-school practice in learning to read number combinations at sight. This set comprises thirty cards, about 2 1-2 x 3 1-2 inches, twenty-seven of which are printed on each side, with a different combination of digits. The other three cards contain the signs of addition, subtraction, multiplication, division and equality, with the dollar sign.

The teacher takes a card at random and quickly holding it before the class asks for names of figures, their sum, difference, product or quotient, meanwhile working the same problems herself by means of the small index figures in the right-hand corner on the side next to her, which are duplicates of the large figures on the opposite side of the card.

Sample box, by mail,
12 boxes

Price.
\$0.25
*2.50

REED'S CARDBOARD OBJECTS.

The teacher needs a set or sheet for each pupil in number work, every set consisting of ten objects of a kind. She will gladly cut the different



objects from the sheets herself for the sake of the help they will afford her. Each child having received a set takes from it the particular number which he is studying and proceeds to group that number in a way to illustrate the problem under consideration. If, for instance, he wishes to demonstrate that four and two are six, he arranges his horses or caps so as to correspond to this grouping and then conforms his number problems to the picture before him.

This assortment of cardboard objects comprises thirty different sheets. These sheets are sold by the dozen and should always be ordered by the numbers given in the above cut. If, for example, a sheet of ten lamps is wanted, the No. 14 must be given in the order

Price, per dozen sheets, \$0.12; postage, \$0.65

EDUCATIONAL TOY MONEY.

We are making this money just as we have been doing for the past twenty years. The material and denominations of our present money are the same as they have always been, the designs alone being different from those which had to be dropped because the government objected to them. This money is approved by the authorities and answers the educational purposes for which it is made, very well. It is sold in boxes having movable trays, one for each denomination, with amounts representing about \$100. Or if wanted in quantities we will quote special rates.

Price, per box, \$0.25



"BUYING AND SELLING."

This is in every sense an educational game. The box contains toy money representing about \$100 and pictures of common-place commodities, which are intended to be sold as substitutes for the articles which they represent. The box also includes slips of manilla paper for making bags to hold bran or sawdust and to be labeled as a variety of goods, unless the youthful merchants are allowed to fill them with the "real" things. Printed labels are provided for various articles, with a list of prices. Price, each, \$0.50

BRADLEY'S FACSIMILE BUSINESS FORMS.

The contents of this set is as follows: Receipt for money on account; receipt for money in full of all demands; note—payable at bank; indorsed note; individual bank check; company bank check; certified check; draft unpaid; accepted draft; paid draft; certificate of deposit; itemized bill of goods; monthly statement; telegram sent; telegram received; stock certificate; coupon bond; business letter.

All of these forms are beautifully engraved and lithographed on superior paper, the same that is used by the best business houses. The notes, drafts and checks are shown with all the indorsements which appear on business paper that has actually passed through the banks and been returned to the makers. Each form representing a cash value bears the stamp "No Value," so as to prevent its possible fraudulent use. The whole set of eighteen forms is attractively put up in an envelope.

Price, per set, \$0.50; postage, \$0.04

PRACTICE BLANKS.

We also offer a collection of receipts, notes, checks and drafts in packages, each containing fifty of the same kind to be used with the Business Forms. They are printed from the same plates as the facsimile forms, but spaces are left for local names and dates, so that the children can make all the indorsements required as the blanks are passed from hand to hand. The list of blanks is made up of receipts, notes, individual bank checks, company bank checks, certified checks and drafts. In ordering be careful to state just what forms are wanted, as we do not sell assorted packages.

Price, per package, 50 of one kind, \$0.10; postage, \$0.03

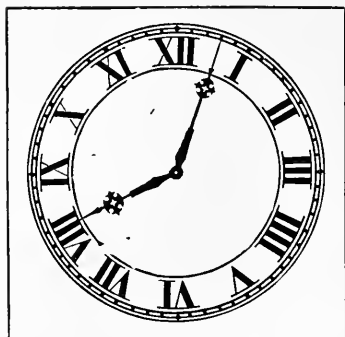
THE SPRINGFIELD TRACING LEAVES.

This set of writing and tracing leaves is designed to be used for supplementary writing or busy work, and originated with Miss Anna E. Hill, supervisor of penmanship in the Springfield, Mass., public schools, who offers it as an entirely new method of teaching penmanship by combining reading and writing.

The words and sentences in the "Primary Writing and Tracing Leaves" have been very carefully selected from lists employed by teachers in the reading lessons, and from the various First Readers in general use throughout the country. When using them writing means something to the child in the beginning of his course, whereas by the old method the first six months of his school life were devoted to making slanting straight lines, right and left curves and the thirteen short letters.

	Price.	Postage.
Per set, in envelope,	\$0.10	
Per dozen, . . . . .	.75	.12

THE EDUCATIONAL CLOCK DIAL.



These dials are for teaching time and are made in two sizes, one for the teacher and the other for the children. The face on the teacher's size is about twelve inches in diameter and on the back of it is printed a series of illustrations and descriptions of the prominent methods for marking time used in different ages, showing how the earliest division of time was made by simple observations of the sun, and also the different devices subsequently invented for the same purpose, which will serve as a text for talks by the teacher.

The child's clock dial has a face four and a half inches in diameter, on thick cardboard. Both sizes have movable steel hands.

Any teacher wishing a lesson on teaching time will find it in "Helps for Ungraded Schools," which we publish and sell for 25 cents, and which contains many useful hints for the use of educational material.

	Price.	Postage.
12-inch dial, cloth-bound and varnished, each,	\$0.50	\$0.20
12-inch dial, on thick card, each, . . . . .	.25	.12
4 1-2 inch dial, on thick card, each, . . . . .	.12	.02
4 1-2 inch dial, per dozen,	1.25	.16

SCHOOL SCISSORS.

In response to repeated requests from our customers we have designed and had manufactured expressly for our trade a special style of school scissors which we designate by our trade mark "M. B. Co.," and which we believe will satisfy all ordinary demands, both service and price being considered. This is a superior article made of good steel, polished and well riveted with rounded points; and suited to any work which may be required of it in the schoolroom.

Price, each, 15 cents.

Price per doz. \$1.25; postage 14 cents.

CUBE ROOT BLOCKS.

We make two sets of cube root blocks No. 1 and No. 2. In the No. 1 set the solid cube is two inches square, with the completed cube two and a half inches.

The No. 2 set carries the operation to two places and the solid cube is but one and a half inches square, making the completed cube the same size as in the No. 1 set.

The blocks are made of three kinds of wood of distinctive colors, and the box is polished cherry with lock-jointed corners. The several pieces in both sets are made with the same care and accuracy as our kindergarten blocks, which are acknowledged superior to any others ever produced.

	Price.	Postage.
No. 1, to one place, per box,	\$0.60	\$0.10
No. 2, to two places, per box, . . . . .	.80	.10

OBJECTIVE FRACTIONS.

Many devices have been used as aids for teaching fractions and the necessity for some concrete presentation of the subject to young children seems assured. The three following devices have been thoroughly tested, and while each has merits exclusively its own, all have the quality of economy, which is important, if each pupil is to have his own material.

BRADLEY'S FRACTION DISKS.

These consist of cardboard disks, each of which is printed in sections of various colors, showing the circle divided into equal parts. There are six disks, showing wholes, halves, thirds, fourths, sixths and eighths.

The Teacher's set consists of six disks seven and one-half inches in diameter.

The Pupil's set consists of disks four inches in diameter, cut up to the same fractional parts.

The larger disks are to be held up by the teacher before the class, and the smaller ones to be used by the pupils.

Teacher's set, price per set, \$0.30 ; postage, \$0.06

Pupil's set, price, per set, .12

MRS. SHELDON'S FRACTION CIRCLES.

As the name indicates this scheme is based on the divided circle. Circular colored cards have printed on them radial lines dividing the surface into sectors of various sizes, to represent the fractions from one-half to one-twelfth. Each card is slitted from circumference to center along one of the lines, and there is also a plain white card which is slitted. When the white card is properly joined to a colored card it may be rotated so as to expose to view more or less of the fractional sectors. There are also circles of tough paper similarly printed which may be folded by the pupils. Each set in an envelope.

THE TEACHER'S SET.

Six colored cards and one white one, with twelve paper circles constitute the teacher's set.

Price, per set, \$0.25 ; postage, \$0.09

PUPIL'S SET.

Twelve paper circles are contained in the pupil's set.

Price, per set, \$0.15 ; postage, \$0.05

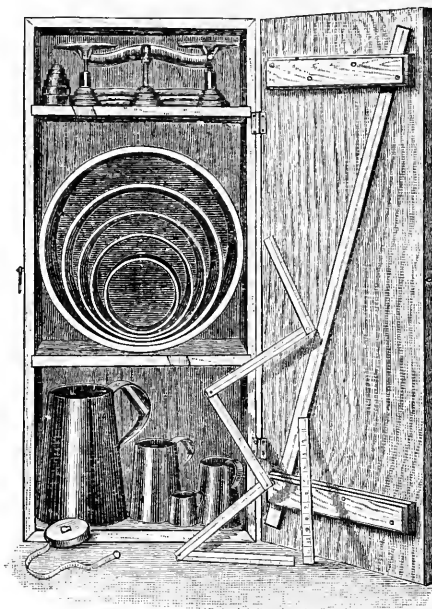
"OBJECTIVE FRACTIONS" RULERS.

This device for teaching fractions objectively can be used as effectively as the Fraction Disks, and is of even greater value in all work involving a comparison of the different features. The unit is a ruler twelve inches long and half an inch wide. Each set consists of ten such rulers, divided respectively into 2, 3, 4, 5, 6, 8, 9, 10, 12 and 15 equal sections, the alternate sections on each ruler being colored to make the division more marked.

Provided with a set of these rulers, a child can master the idea of a fraction with ease, learn to know at sight each fraction shown, quickly change fractions to larger, smaller and smallest terms and find the common measure of different fractions. He is then ready for all simple work in addition, subtraction, multiplication and division of fractions.

Price, per set, \$0.10 ; postage, \$0.02

CABINET OF WEIGHTS AND MEASURES.



LIST OF CONTENTS.

- 1—A set of Fairbanks balance scales.
- 2—A set of weights from 1 lb. down to 1-2 oz.
- 3—A set of standard oak measures, well-finished, sealed and varnished, 1 quart, 2 quarts, 4 quarts, 8 quarts and 16 quarts.
- 4—A set of tin liquid measures, four pieces, 1 gill, 1 pint, 1 quart, 1 gallon. These are made without lips or flanges, to better convey a correct impression of actual size, and are neatly japanned.
- 5—A fifty-ft. tape measure in brass-bound, durable case.
- 6—A good hard-wood yard-stick accurately graduated to inches and eighths on one side, and on the other to fractions of a yard.
- 7—A foot-rule containing inches graduated to the following fractions:—Fifths, tenths, twentieths, fortieths, sixths, twelfths, twenty-fourths, forty-eighths, eighths, sixteenths, thirty-seconds and sixty-fourths.
- 8—A folding meter, showing decimeters, centimeters and millimeters.
- 9—A large protractor-scale, 16 inches long, for measuring angles and for laying them out on the blackboard.

Well wrapped for shipping by freight or express.

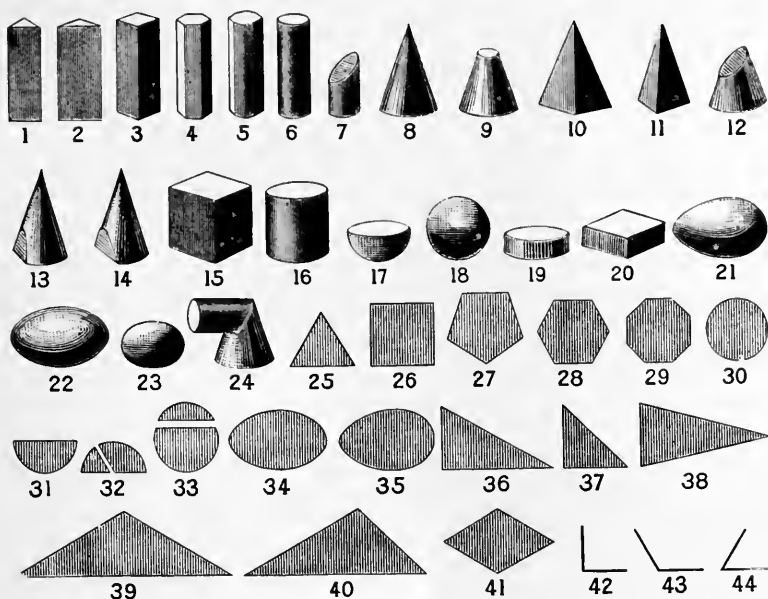
*Price, \$10.00

The style and quality of all this material is of a high grade, suitable in appearance and accuracy for the use intended.

The following articles may be conveniently added, as there is room for them in the cabinet:—

- 10—A cubical liter measure, made very accurately, of heavy stock, and well japanned to match the other liquid measures, and a balance weight accompanying it. Price, *\$0.60
- 11—A set of metric weights, from 1 kilogram to 10 grams. *1.50

GEOMETRICAL SURFACES AND SOLIDS.



This set of forms embraces the common surfaces and solids which are found in elementary geometry, together with a simple illustration of angles. As shown in the above cut, there are twenty-three solids, seventeen surfaces and three angles, the latter being represented by bent wires. The solids are accurately and neatly made from well-seasoned hard wood and the surfaces from a very hard light-colored board, accurately cut with steel files.

The curves of the Conic Sections, Ellipse, Parabola and Hyperbola are very clearly indicated by the plane surface on three separate cones—the fourth showing the circle as a rectangle section.

No.

SOLIDS.

- | | | |
|--------------------------------|--|-----------------------------|
| 1 Equilateral Tri. Prism. | 10 Pyramid, Square Base. | 17 Hemisphere. |
| 2 Right-angled Tri. Prism. | 11 Pyramid, Triangular Base. | 18 Sphere. |
| 3 Square Prism. | 12 Cone Truncated Diagonally. | 19 Circular Plinth. |
| 4 Hexagonal Prism. | 13 Cone, with section showing the Hyperbola. | 20 Square Plinth. |
| 5 Octagonal Prism. | 14 Cone, with section showing the Parabola. | 21 Ovoid or Egg. |
| 6 Cylinder. | 15 Cube. | 22 Ellipsoid. |
| 7 Cylinder with Diagonal Sect. | 16 Cylinder. | 23 Oblate Spheroid |
| 8 Cone. | | 24 Combination of 7 and 12. |
| 9 Truncated Cone. | | |

SURFACES.

- | | | |
|--------------------------|---|--|
| 25 Equilateral Triangle. | 32 Two Unequal Sectors. | 37 Right-angled Isosceles Tri. |
| 26 Square. | 33 Two Unequal Segments. | 38 Acute-angled Isosceles Tri. |
| 27 Pentagon. | 34 Ellipse. | 39 Obtuse-angled Isosceles Tri. |
| 28 Hexagon. | 35 Oval. | 40 Obtuse-angled Scalene Tri. |
| 29 Octagon. | 36 Right-angled Scalene Triangle, having its two acute angles 30° and 60° . | 41 Rhombus, Diamond or Lozenge, made from two equilateral triangles. |
| 30 Circle. | | |
| 31 Semi-circle. | | |

ANGLES.

- | | | |
|---|------------------|-----------------|
| 42 A Right Angle formed by a bent wire representing a line. | 43 Obtuse Angle. | 44 Acute Angle. |
|---|------------------|-----------------|

The fact that an oblique section of a cone is an ellipse, as well as the oblique section of a cylinder, is shown by combining Nos. 7 and 12.

This set is put up in a neat pasteboard box.

*Price, per set, \$2.00

"NEW FORMS AND SOLIDS."

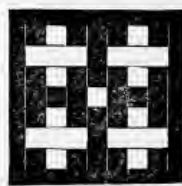
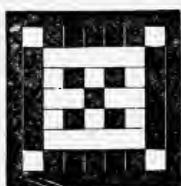
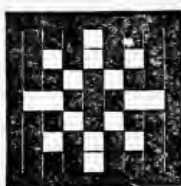
This set consists of forty-four pieces, accurately and neatly made and put up in a wooden box, each form being numbered, with a description on the inside of each cover:—

1 Equilateral Triangle.	15 Pentagon.	30 Sphere.
2 Right-angled Triangle.	16 Hexagon.	31 Hemisphere.
3 Right-angled Triangle.	17 Heptagon.	32 Prolate Spheroid.
4 Obtuse-angled Triangle.	18 Octagon.	33 Oblate.
5 Curved	19 Nonagon.	34 Ovoid.
6 Triangle—one curved side.	20 Decagon.	35 Cylinder.
7 Isosceles Triangle.	21 Circle.	36 Cone.
8 Scalene.	22 Semi-circle.	37 Conoid.
9 Square.	23 Quadrant.	38 Cube.
10 Oblong.	24 Segment.	39 Square Prism.
11 Rhomb.	25 Sector.	40 Triangular Prism.
12 Rhomboid.	26 Ring.	41 Hexagonal Prism.
13 Trapezium.	27 Crescent.	42 Square Pyramid.
14 Trapezoid.	28 Ellipse.	43 Triangular “
	29 Oval.	44 Six-inch Rule.

Price, per box, *\$2.00

PRIMARY SCHOOL DIAGRAMS.

USED WITH MRS. HAILMANN'S MATS.



For the help of primary school teachers who have not time to dictate many exercises a set of forty-eight diagrams of paper weaving has been prepared. Each design is printed on a substantial card about nine inches square, with holes for hanging on the wall, so that the pupils can weave mats from observation while the teacher is occupied with a class.

For a detailed description of Mrs. Hailmann's graded weaving mats see the kindergarten department of this catalogue, Nos. 1200 to 1216.

Price of diagrams, per box, \$1.00

MENSURATION OF SURFACES AND SOLIDS.

ITS MANUAL DEMONSTRATION.

This apparatus for illustrating the different problems of mensuration is the invention of L. W. Parish and is highly praised by those teachers who have put it into practical use. One exhibition of these simple manual demonstrations to a pupil who is studying mensuration, even before the mathematical demonstration is attempted, will impress the facts more firmly on his mind than weeks of drilling on formulas.

AREA OF THE CIRCLE.

In this apparatus we have the manual demonstration that the area of a circle is equal to the radius, multiplied by one-half the circumference. It consists of a large number of sectors, attached at their bases to a couple of pliable bands which can be joined together so as to make a circle with a diameter of eight inches. If these two semi-circumferences are straightened out two comb-like forms are secured, and by inserting the teeth of one set between the teeth of the other set and by inserting the teeth together a rectangle is obtained. The base of this rectangle is the semi-circumference of the circle straightened out, and its height is the radius of the circle.

Price, per set, \$1.25 ; postage, \$0.15

AREAS OF TRIANGLES.



FIG. 1.

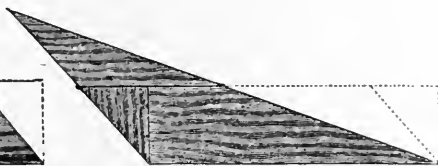


FIG. 2.

Fig. 1 and 2 demonstrate mechanically that the area of a triangle is equal to its base, multiplied by one-half its altitude. Fig. 1 illustrates the problems when a perpendicular from the apex falls within the base, and Fig. 2 when it falls outside the base.

Both triangles are formed of boards which are divided and hinged in such a way that by simply swinging certain parts on their hinges the triangles become rectangles, twelve inches long and three inches high. When the triangles and the sectors which form the circle are ordered at the same time they will be packed together in a neat box.

	Price.	Postage.
The two triangles,	\$1.25	\$0.15
The two triangles and the circle sectors,	2.50	.25

CONTENTS OF CONE, SPHERE AND CYLINDER.



FIG. 1.



FIG. 2.

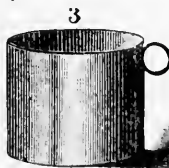


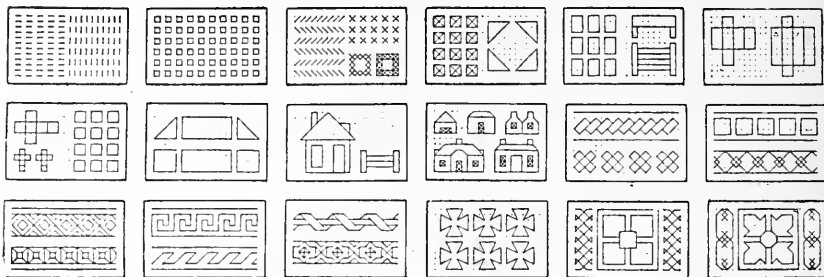
FIG. 3.

These three pieces demonstrate the relation between the contents of a cone, sphere and cylinder. Fig. 1 is a conical cup, three inches in diameter at the top, and three inches deep. Fig. 2 is a solid sphere. Fig. 3 is a cylindrical cup, three inches in diameter and three inches deep.

Actual demonstration shows that the contents of the cone three times filled with water fills the cylinder, and that if the cylinder is filled with water and the ball entirely immersed there will remain in the cylinder just water enough to fill the cone. It follows therefore that the contents of the three are as the numbers 1—2—3. The pieces are packed together in a box.

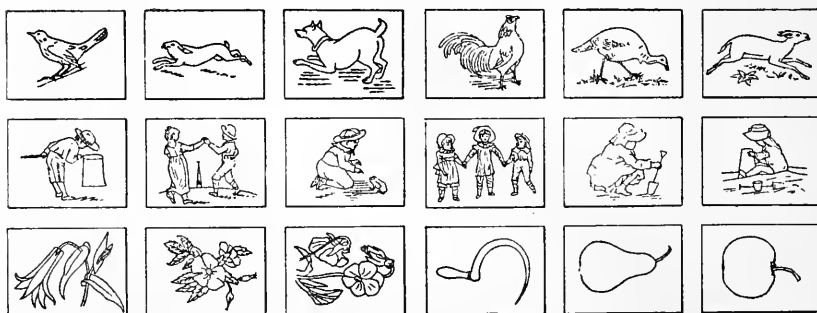
Price, per set, \$0.75 ; postage, \$0.20

PRIMARY PRICKED SEWING CARDS.



Under this head we sell cards 5 x 3 1-2 inches all pricked alike in squares of quarter inches over the whole surface. The geometric solids are now made the basis of all intelligent work in drawing, and the lines and plane figures found in these solids can be reviewed on the cards and those patterns worked out which have been previously designed with sticks and tablets. The above designs are intended merely to furnish suggestive exercises, not to provide copies for school work. Many other equally valuable forms may be produced. Price, 100 cards, \$0.50 ; postage, \$0.15

EMBROIDERY DESIGN CARDS.



These cards are 4 x 5 1-2 inches and contain a large variety of outline designs, printed with a dot at each point where a stitch is to be taken. Holes must be pricked at the dots before the sewing begins. The cards are put up in envelopes and sold in seven sets, being grouped as follows :—

Nos. 1, 2, Animals. Nos. 3, 4, Figures of children, etc. No. 5, Flowers. No. 6, Familiar objects, Hat, Drum, Vase, Pear, etc. No. 7, Assorted designs from the other groups.

In the above reduced designs the top row represents Nos. 1 and 2 the second one Nos. 3 and 4 and the third one Nos. 5 and 6. No. 7, is assorted from the other groups.

Price. Postage.

1 Envelope, 14 cards,	.	.	.	.	.	\$0.15	\$0.02
12 Envelopes, 14 cards in each,	.	.	.	.	.	1.75	.25
1 Spool silk,	.	.	.	.	.	.06	
12 Spools thread, assorted colors,	.	.	.	.	.	.60	.10
1 Lap or skein worsted,	.	.	.	.	.	.10	.02
1 Paper of 25 needles,	.	.	.	.	.	.10	.01

We also furnish Embroidery Silk, Thread, Worsted and Needles. A description of all this material will be found by consulting the kindergarten department of this catalogue, Nos. 194 to 199. We will send a sample of the cards and thread to any address, on receipt of a two-cent stamp.

BIBLE SEWING CARDS.

In response to many requests from parents and Sunday School workers we offer two sets of sewing cards which pertain to objects frequently named in the Bible. They are lithographed on excellent white stock and the designs can be artistically worked out with colored silk, thread or worsted. The cards of set A are 5 1-2 x 7 1-2 inches, and these are the twelve subjects :—

Map of the Bible World, The Tabernacle, Altar of Incense, Altar of Burnt Offerings, Table of Shewbread, Golden Candlestick, High Priest, Woman at the Well, Shepherd, Camel, Temple, Map of Palestine. The cards of set B are 4 x 5 1-2 inches, and the subjects are as follows : Tablets of the Law, Trumpets, Horn, Harp, Flute, Cymbals, Lamp, Book, House, Olive Tree, Cedar of Lebanon and Palm Tree.

Set A, 12 cards in envelope,	Price. \$0.30
Set B, 12 cards in envelope, . . . . .	.20

AMERICAN HISTORY SEWING CARDS.

These cards are like set A of the Bible cards as regards size and stock and are intended for use in the home and primary school. These are the twelve subjects : The Santa Maria, Route of Columbus, First Sight of Land, Landing of Columbus, Columbus in Chains, North American Indian, Wigwam or Tepee, Bow, Arrows and Tomahawk, Calumet and Wampum, Puritan, Liberty Bell, United States Flag. Each envelope has printed on it directions for pricking the cards and working the outlines. For a description of the material which can be used to advantage in doing this work see the kindergarten numbers 172, 174, 194, 196, 197 and 199 of this catalogue.

Price, per set, \$0.30

COOLEY'S WRITING EMBROIDERY CARDS.

The object of these cards is to provide means for the adaptation of form study to writing. They help to fix in the child's mind a correct image of the form of script letters while furnishing him agreeable desk work. For school use, fifty cards of one letter are put up in Box No. 1. Box No. 2 contains the capitals and small letters making sixty pieces. Box No. 3 has a family outfit consisting of an assortment of different letters with felt pad, pricking needle, and embroidery cotton in assorted colors, very desirable for the nursery. We also sell the cards by the dozen so that each customer will have no trouble in making her own selection and we will send a descriptive circular showing the different forms of the capitals.

Per dozen cards,	Price \$0.12
No. 1 box, 50 cards of one letter or figure, . . . . .	.40
No. 2 box, sample set of letters, 62 pieces, . . . . .	.50
No. 3 box, assorted letters and sewing outfit, . . . . .	.30

MISS ARNOLD'S NATURAL HISTORY SEWING CARDS.

These cards have been prepared by Miss Sarah L. Arnold for use with lessons on plants and animals in primary classes and kindergartens, and are too well known to require extended explanation. They are divided into four sets and pertain to Plants, Vertebrates, Birds and Invertebrates. The cards relating to plants are 4 x 5 inches in size, lithographed on substantial manilla stock, and sold in boxes. Each of the other sets has twenty-five cards, 4 1-2 x 5 1-2 inches, lithographed on fine white stock and sold in envelopes.

Each package contains a descriptive circular giving the contents of all the packages and directions for embroidering the designs and conducting the science lessons which should always go with the sewing. We will mail this circular to any address on application.

	Price.	Postage.
Plants, No. 1 box, 50 cards of one design, . . .	\$0.35	\$0.10
Plants, No. 2 box, 50 different designs, . . .	.40	.10
Plants, 12 cards assorted to order, . . .	.12	.02
Vertebrates, 25 cards in envelope, . . .	.30	.05
Birds, 25 cards in envelope, . . .	.30	.05
Invertebrates, 25 cards in envelope, . . .	.30	.05

MISS HAYDEN'S CARDS OF COLORADO WILD FLOWERS.

This is a new series of Sewing Cards designed from nature. A color scheme accompanies each package, giving full directions for selecting colored thread for sewing the cards. The name of the flower is first given, then the color of the petals, the center and the foliage. The different shades are produced with the color top. The standard colors are combined in certain designated proportions by the use of the disks which accompany the top, and then by rotation the derived new color is obtained. Thus all colors called for in the entire list may be definitely produced. If for convenience in selecting threads it is desirable to do so, the colors called for may be approximately copied in water colors from those indicated by the top and the wools or silks selected by comparison with them, but direct tests with the top are more accurate. Price, per set, 25 cents.

THE DUNN AND CURTIS ILLUSTRATIVE SEWING CARDS IN COLOR.

These Illustrated Cards are published in response to continual requests from many teachers. They are divided into two sets.

A, Literature Illustrations.

B, Cards for Special Occasions.

The cards are printed in color for the purpose of placing before children truthful and delicate representations, and that they may connect with the manual operation a real interest in the subject which they outline.

	Price.
Set of 8 cards,	\$0.25
Dozen of any design, . . . . .	.40

CARDS OF GEOMETRIC FORMS.

This set of cards is identical in size and material with those relating to Vertebrates, Birds and Invertebrates, although it does not belong to the series of sewing cards designed by Miss Arnold. The twenty-five cards are intended to be used with lessons in elementary form-study and this is the list :—

Sphere and Hemisphere, Cylinder, Cube, Square Prism, Triangular Prism, Hexagonal Prism, Cone, Square Pyramid, Hexagonal Pyramid, Ellipsoid and Half-ellipsoid, Ovoid and Half-ovoid, Circles with Diameter and Radii, Oblong, Square with Diameter and Diagonals, Half-square and Equilateral Triangle, Isosceles Triangle, Scalene and Obtuse-angle Triangles, Hexagon and Pentagon, Designs in Circles, Designs in Squares, Designs in Equilateral Triangle, Designs in Hexagon and Designs in Pentagon.

Price, per set, \$0.30 ; postage, \$0.05

PEN LETTERING.

A portfolio containing twenty-four sheets of alphabets, ancient and modern, plain and ornamental, for the use of draftsmen, engineers, architects and students of industrial drawing in all its branches. The collection is intended to supply a large variety of letters in such styles as can be perfectly imitated with a pen. These plates are issued unbound in a portfolio, because a large bound book of lettering is always so inconvenient for practical use in an office and the sheets are very apt to get detached from the binding. A descriptive circular will be mailed on application.

Price, per set, \$0.25

STUDIES IN NATIVE WOODS.

Much attention is now given to nature study in our kindergartens and primary schools, and this fact has induced us to put into a form convenient for school purposes samples of native woods, with good illustrations of the leaves, flowers and forms of the trees from which the woods are derived. The set comprises a series of sixteen such studies, each representing some familiar tree, and consisting of a lithographed card showing in natural colors the leaf, flowers, fruit and full tree, framed in the wood under consideration, and having mounted on it two tablets of the same wood to show the side and end of grain.

These studies are put up in two strong cases, lettered Vol. I and Vol. II. When standing on a shelf the lettering is in view on the front of the case, and the contents are protected from the light and dust. A descriptive pamphlet of thirty-six pages, explaining the methods of sawing, finishing and polishing the woods, and giving a description of each of the sixteen trees, accompanies each set of studies, and a smaller circular on the subject will be sent free to any address.

Price, each set of two volumes, \$15.00

BEADED PEGS.

These pegs are for use with Mrs. Putnam's Busy Work Tiles or the Primary Peg Boards. They come in six colors, are three-quarters of an inch long, and have a large wood bead on one end. When set in the tiles the beaded pegs add much to the attractiveness of the design.

Price, per box of 144 pegs, \$0.40 ; postage, \$0.03.

COLORED PENCILS.

In ordering from the following list give the numbers, being careful to state that pencils 7 inches long are wanted.

718 Blue, Ultramarine (standard).	743 Red tint.
710 Blue, Prussian blue.	725 Red Shade.
738 Green blue.	717 Red, darker shade.
703 Green blue, tint.	704 Orange.
726 Blue, slightly darker than 710.	733 Orange yellow.
735 Violet.	747 Orange yellow shade.
716 Violet tint.	742 Darker shade of 747.
724 Violet shade.	702 Yellow.
731 Orange shade (umber).	706 Green.
714 Shade of 731.	745 Yellow green.
750 Violet Red.	713 Blue green.
712 Red.	

Price, each, \$0.06 ; postage, \$0.01

We sell an assortment of pencils 4 1-2 inches long in Red, Blue, Yellow, Green, Orange and Violet. In ordering specify that the pencils 4 1-2 inches long are desired and mention the color, or else say "assorted in box." Six pencils, assorted in box.

Price, \$0.10 ; postage, \$0.02

We also have a composition slate pencil in wood in three colors, Red, Yellow and Blue.

Price, for the three, \$0.05 ; postage, \$00.02

DRAWING STENCILS FOR OUR LITTLE ARTIST.



We offer a line of stencils in American designs which are much more attractive to American children than the foreign collections. We publish four sets, Nos. 1, 2, 3 and 4, bearing the title, "Drawing Stencils for Our Little Artist." Each box contains twenty stencils, with a stock of practice drawing paper. A few of the best designs are duplicated, but most of them are different in the four boxes.

Price, No. 1, No. 2, No. 3 or No. 4, each, \$0.25 ; postage, \$0.08

DISSECTED MAPS.

We make a large line of dissected maps valuable for the home and for school busy work. A list with full description of each style with prices will be mailed on application.

COMBINATION DRAWING STENCILS.



FIG. 1.

Drawing stencils made from leather paper have become very popular as fascinating and educational busy work, both in the primary schools and at home. This series of cards affords a novel and valuable line of busy work. In "drawing stencils" as heretofore made each is a complete composition in itself, and the occupation of drawing with the cards involves little development beyond the manual training, which certainly is of great value for earliest practice. In the "Combination Stencils" each card contains

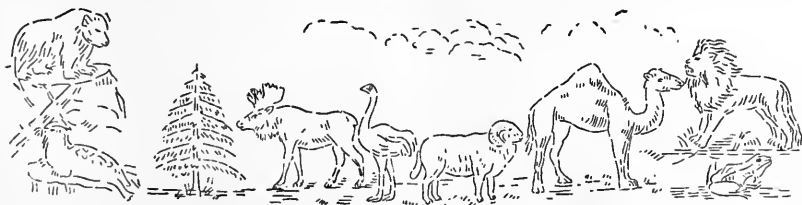


FIG. 2.

a number of objects arranged with no pictorial relation to each other, but the child can by selecting objects from several cards compose original pictures, the merits of which will depend upon the feeling which the "little artist" has for the truths of form and perspective. In the use of these new cards a child will soon come to see intuitively how perspective effects are secured by placing the larger forms in the foreground and the smaller ones in the background or middle distance.

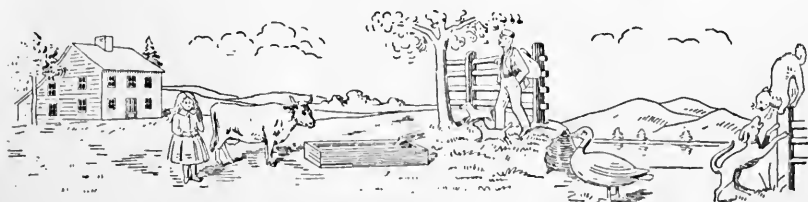


FIG. 3.

The accompanying designs are suggestions of what may be done in the direction indicated. Figs. 1 and 2 represent the pencil marks as made through the stencils, while Fig. 3 shows a sketch in which the lines have been completed by connecting or redrawing the broken lines of the stencils and adding some shading. By using the different stencils a great variety of combinations can be secured. Each set of eighteen cards is in an ornamental box, containing also instructions and samples of full-size drawings.

Price, each box, 25 cents; postage, 8 cents.

SUPPORT FOR DRAWING MODELS.

The Springfield Support for Drawing Models can be readily adjusted and also removed from the desk at pleasure. An illustrated descriptive circular mailed on application.

*Price, each, \$0.25

THE SPRINGFIELD PANTOGRAPH.

The present educational methods create a general demand for various conveniences for copying engravings and drawings when the subject to be copied must be enlarged or reduced. For blackboard work many small engravings from books of geography, botany, geology and other branches of natural history can be used to advantage, provided they can be accurately and conveniently transferred to the board.

This pantograph is not a toy roughly constructed, such as have hitherto been in the market, but is an accurate instrument, at a low price. Each pantograph is accompanied by carefully prepared directions for use.

Price, each, \$0.50 ; postage, \$0.05

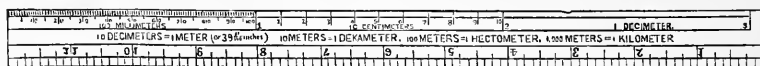
THE MECHANIC'S RULE—BASSWOOD.



One edge of this rule is divided into sixteenths of inches, for ordinary use. On the other edge are twelve different divisions, from 5 to 64, accurately engraved by a screw machine, a variety found elsewhere only on the expensive scales of the mechanic or draftsman. This rule is a very convenient help in any schoolroom, being especially useful in giving the children a definite idea of the minute fractions of an inch.

Price, each, \$0.01 ; postage, \$0.01

THE METRIC RULE—BASSWOOD.



On one edge of this rule, which has been termed the International Rule in former editions of this catalogue, inches and eighths are printed, and the other edge contains the metric measure, while in the center is found the metric measures for long distances. This rule is valuable as a constant presentation of the principal quantities in the metric system, where it is taught, and gives a ready comparison of the two lineal measures.

Price, each, \$0.01 ; postage, \$0.01

The postage for a dozen of either of the Basswood Rules is four cents.

THE PRIMARY SCHOOL RULE.

This rule is for use in the lowest grades and is graduated in quarter inches, so that the little folks who handle it need not be taxed with finer divisions. It has been prepared at the request of prominent school officers and teachers.

Price, each, \$0.02 ; postage, \$0.01

THE GRAMMAR SCHOOL RULE.

This rule is graduated in sixteenths of inches and in every way well finished. There is nothing like it for standing the ordinary wear and tear of schoolroom service and giving the pupils an accurate idea of a foot.

Price, each, \$0.02 ; postage, \$0.01

THE MANUAL TRAINING RULE.

This is a hand-polished rule, about three quarters of an inch wide, with one edge beveled, graduated by steel dies accurately engraved by machinery. This rule is divided into sixteenths of an inch, the graduations being plainly marked.

Price, each, \$0.05 ; postage, \$0.01

When ordered by the dozen the postage on the Grammar School Rule or the Manual Training Rule will be ten cents.

THE INDUSTRIAL DRAWING RULE.

This is a thin rule, one inch wide, with one edge beveled and graduated to inches and sixteenths. In addition to its use for making measurements this wide, thin rule is designed to go with draftsmen's triangles in elementary industrial drawing.

Price, \$0.07 ; postage, \$0.02

FLAT DRAWING SCALE.

This set is made of rock maple, in the ordinary form of box-wood scales. It comprises three pieces, each of which has two beveled edges, and each edge contains a scale, so that the set gives six graduated edges.

No. 1 contains the 12-inch rule in sixteenths on one edge and the 1-inch scale on the other edge.

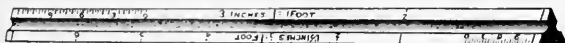
No. 2 contains the 3-inch scale and the 1 1-2 inch scale.

No. 3 contains the 3-4 inch scale and the 1-4 inch scale.

Price, each, of Nos. 1, 2 or 3, \$0.15 ; postage, \$0.02

When ordered by the dozen the postage on the Industrial Drawing Rule or the Flat Drawing Scales will be thirteen cents.

THE ARCHITECT'S TRIANGULAR SCALE.



This scale is not only good enough for all educational purposes, but is a practical article for the regular use of architects and draftsmen. All the scales are carefully inspected and selected at each stage of manufacture, being finely-finished with a good hand-rubbed shellac polish and provided with a manilla case, to serve as a permanent protection for the edges. When ordered by the dozen the postage will be twenty-three cents.

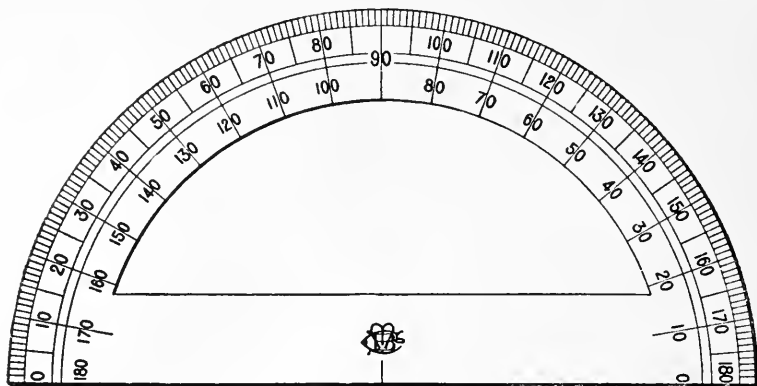
Price, each, \$0.50 ; postage, \$0.03

All the rules and scales in this list not designated as basswood are made from carefully-selected rock maple and are accurately graduated.

BLACKBOARD PROTRACTOR SCALE.

For other angles than those provided in the triangle, a protractor is necessary to complete the line of instruments for blackboard work. It is furnished in the rectangular form of a protractor scale of heavy tough paper-board, sixteen inches long and about five inches wide, representing a circle of sixteen inches diameter, divided to degrees. Price, each, \$0.25

THE PERFECTION CARDBOARD PROTRACTOR.

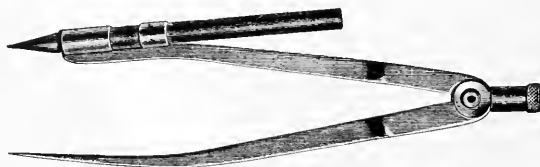


The above engraving is a facsimile of a cardboard protractor for primary grades, which is used in many public schools with great satisfaction.

This instrument is four inches in diameter and is made from cardboard prepared expressly for this purpose and graduated with a very accurately engraved die.

Price, per dozen, by mail, \$0.30

THE SPRINGFIELD SCHOOL COMPASSES.



The above illustration represents a practical instrument designed for pupils in the higher grades. The construction of the joint is peculiar, having two annular wearing surfaces milled from solid metal and so accurately adjusted to each other that a perfectly smooth and uniform movement of the legs is insured for a long time without perceptible wear. There are two styles, No. 1, and No. 2, and the only difference is in the size of the pencil holders. No. 1, as shown in above illustration, is made to receive a small pencil, and No. 2, the usual school pencil.

The instrument is five and one-half inches long, thereby covering a range of work sufficient for all demands without an inconvenient spread of the legs, and is unquestionably the best on the market for secondary and manual training schools.

Price, each, \$0.35 ; postage, \$0.03

THE PROVIDENCE DRAWING COMPASSES.

This well-known instrument is peculiar in its slotted cross bar with clamping screw and the self-propelling pencil lead, which features especially recommend it to its many friends.

Price, each, \$0.25 ; postage, \$0.02

THE DAISY PENCIL COMPASSES.

These well-known compasses are without doubt the best article yet offered for the price. Cheap and simple, they have proved to be the popular instrument for the lower grade schools ever since their introduction.

Price, each, \$0.15 ; postage, \$0.02

THE BLACKBOARD COMPASSES.



The work of constructing a circle, if of any value, must be done mechanically, hence the need of compasses in the primary schoolroom, as well as in the higher grades. We have in stock a style of dividers which is a fine article, price and quality considered, and which is well illustrated in this cut. It is provided with patent adjustable crayon-holders and metal points, so constructed that either leg will hold a crayon or a point. Any teacher who has once used this help in blackboard drawing readily appreciates its advantages. In making mathematical demonstrations it is much more convenient and effective than the bits of chalk and string that were made to do service before this instrument was invented. Formerly the best compasses brought double the price named here, but this one will be found to answer every purpose. It is thoroughly made, being sufficiently rigid for any service required, but is not necessarily heavy.

Price, each, \$0.50

GRADUATED OPEN FRAME TRIANGLE.

The graduated open-frame triangle gives the necessary angles, 90° , 60° , and 30° , on a large scale, together with inches and subdivisions. This instrument is twenty and three quarters and twelve inches on the two legs respectively, is very accurate and strongly made, and is exceedingly useful for blackboard work, or in laying out large diagrams for any purpose.

*Price, each, \$0.50

OUR YARDSTICK.

A good hard-wood yardstick, graduated down to inches and eighths on one side, affords a light and accurate measure.

Price, each, \$0.10

A FOLDING METRIC MEASURE.

A metric measure folding in five lengths of two decimeters each and showing, centimeters and millimeters.

Price, each, \$0.20 ; postage, \$0.02

MANUAL TRAINING OUTFIT.

We manufacture and supply many things useful in elementary manual training, among them being the Bennett Desk Cover and a variety of simple tools at moderate prices. A special circular will be mailed on application, including a price list of the sizes and quantities of knife work material recommended, based on the needs of a class of twenty-four pupils.

DRAWING PAPERS.

To meet the demands for a line of school drawing papers which shall commend itself in quality and price we manufacture expressly for our own trade the following varieties :—

PARCHMENT DRAWING PAPER.

This is a special hard-sized, gray-tinted drawing paper, with a rough pencil-surface of superior tooth, which we offer at a price no greater than is charged for the common manilla practice paper so generally used in the public schools. The Parchment Drawing paper is the result of several experiments made by a first-class paper manufacturer according to our directions, and is the best drawing paper ever put on the market at the price. In fact it is preferred by some teachers to papers which are much more costly. The size is 19 x 24 inches. *Price, per ream, \$3.50

SPRINGFIELD WHITE SKETCHING PAPER.

This is a clean, white paper, with a hard, rough finish, good for either pencil or pen-drawing, for free-hand or mechanical work. It has a superior color and good texture, the weight being sufficient to secure satisfactory results in much of the free-hand and mechanical work. It is not, however, heavy enough to make it desirable for regular mechanical or industrial drawings. The size is 19 x 24 inches.

*Price, per ream, \$5.50

PATENT MACHINE HAND-MADE.

This is a superior paper, of the best white stock, thoroughly sized and bearing a patent surface in imitation of the best hand-made linen papers. It will bear all the erasing required in mechanical drawing and is an excellent paper for water-color work. It is sold in sheets 19 x 24 inches.

*Price, per ream, \$8.00

DOTTED PRACTICE DRAWING PAPER.

We furnish this paper in sheets five inches square, with a dotted surface four inches square. Style No. 1 has the surface covered with dots in one inch squares, and No. 2 is printed in the same way, with the addition in one corner of a circle having a diameter of two inches. Both varieties are for practice in drawing straight lines and circles free-hand, and are for use in the lowest grades, either with or without some regular system of drawing.

Price, 100 sheets, \$0.15; postage, \$0.06

PRACTICE PAPER, No. 20.

We also provide an excellent article of buff practice drawing paper, known as No. 20, in packages of one hundred sheets. It can be ordered in sheets 6 x 9 inches, 8 x 11 or 9 x 12, or if wanted in large quantities we will furnish it in any size up to 24 x 38 inches. We can recommend this paper, both as regards quality and price.

	Price.	Postage.
Per package, 100 sheets, 6 x 9,	\$0.10	.12
Per package, 100 sheets, 8 x 11, . . . .	.15	.20
Per package, 100 sheets, 9 x 12, . . . .	.20	.24

In case the popular demand warrants such an outlay, we shall manufacture a heavier grade of the Springfield White Sketching Paper and the Patent Machine Hand-Made Paper, and shall be pleased to hear from drawing teachers regarding such a demand.

SPRINGFIELD INDUSTRIAL DRAWING KIT.

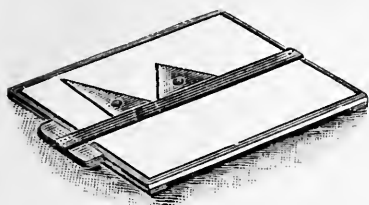


FIG. 1.

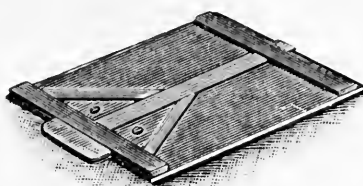


FIG. 2.

The Springfield Drawing Kit is too well known to need a detailed description here. Fig. 1 shows the top side when in use and Fig. 2 the back side with T square and triangles in place.

THE COMBINED DESK EASEL AND KIT.



FIG. 3.



FIG. 4.

The demand for an effective device to hold the sheet of paper in free hand drawing has led to the construction of an attachment to the Kit which serves the purpose admirably. Fig. 3 shows the front and Fig. 4 the back of the combined Easel and Kit.

When not required as an Easel the special attachments do not interfere with the ordinary uses of the board for instrumental drawing.

PRICE LIST OF EASEL AND KIT.

KITS.	Price.	EASEL AND KIT.	Price.
No. 1, 10 x 12 inches, . . .	\$0.30	No. 1, 10 x 12 inches, . . .	\$0.50
No. 2, 13 x 19 " . . .	.50	No. 2, 13 x 19 " . . .	.75
No. 3, 17 x 22 " . . .	.75	No. 3, 17 x 22 " . . .	1.10
No. 4, 17 x 22 " finer finish	1.00		
No. 5, 18 x 24 " . . .	1.25	No. 5, 18 x 24 " . . .	1.60

PADS OF DRAWING PAPER.

For No. 1 Kit, parchment drawing paper, 20 sheets, . . .	*.05
For No. 1 Kit, Springfield white drawing paper, 20 sheets, . . .	*.07
For No. 2 Kit, parchment drawing paper, 20 sheets, . . .	*.10
For No. 2 Kit, Springfield white drawing paper, 20 sheets, . . .	*.14

These goods are not sent by mail, because the postage would make them too expensive.

For a more detailed description of the above, send for a special circular.

THE BRADLEY COLOR SCHEME.

All color in nature and art is produced by rays of light which impinge on the retina of the eye of the observer and produce, when conveyed to the brain, an impression of color. In representing natural objects by paintings and colored drawings, pigments are used to imitate the colors seen in the objects.

The important features peculiar to the Bradley system of color instruction are the selection of definite scientific standards in the solar spectrum and the combination of pigmentary imitations of these standards by means of the rotating disks, to produce and accurately name innumerable other colors found in nature and art.

This is the only system of elementary color instruction based on the science of chromatics and embodying a nomenclature by which colors can be definitely expressed, and has been accepted by a large number of the leading Colleges and Universities as the basis for experiments in their psychological laboratories. This system and the means for its application to elementary color instruction are briefly set forth under the four following heads.

SIX SPECTRUM STANDARDS.

The six locations in the solar spectrum which best express the ideas of Red, Orange, Yellow, Green, Blue and Violet have been aesthetically selected by the unanimous opinion of a large number of competent people, including artists, scientists and teachers. In these selections of standards the most intense expression of each of the six colors has been chosen, as for example, the reddest Red, greenest Green, etc. These standards have been selected in accordance with the consensus of color feeling, and each has been scientifically located by its wave length so that absolute and permanent standards of color are secured which serve to form the basis for a color nomenclature by which the name and accurate analysis of any color may be recorded.

PIGMENTARY STANDARDS.

The best possible pigmentary imitations of the six spectrum standards and of white and black form eight pigmentary standards.

DISK COMBINATIONS.

The application of these eight standard pigmentary colors to Maxwell Disks and the rotation of suitable selections from these disks in combination on the color wheel produce an indefinite number of other colors which may be accurately named in terms of the eight pigmentary standards, and thus the elements of a complete nomenclature of colors are obtainable.

COLORED PAPERS.

For practical color instruction in the kindergarten and primary schools colored papers are necessary and a full line of coated and stained papers for the purpose has been manufactured in accordance with the Bradley standards. These papers are sold in full sheets or cut to various sizes for schools and kindergartens.

In the kindergarten material colored papers are furnished cut to various sizes and forms. For information regarding these papers see pages of this catalogue especially devoted to the Kindergarten Material.

Green papers have long been regarded as unsafe, because they usually contain arsenic, and as color manufacturers are introducing the same ingredient into some other colors it has become impossible for any dealer to guarantee papers bought in the market as free from this poisonous chemical. Our papers, however, are all made to order and guaranteed by the manufacturers to be free from arsenic.

THE OUTFIT FOR COLOR INSTRUCTION.

Our outfit of materials and appliances for color instruction comprises Glass Prisms, Colored Papers, the Color Wheel or Color Mixer in several styles, the Color Top and various charts for illustrating the harmonies and principles of color combinations.

GLASS PRISMS.

We offer three sizes of prisms which give excellent results, considering the moderate cost. By the use of either, a small spectrum can be shown on the wall of any schoolroom having a sunny exposure during any part of the day.

COLORED PAPERS.

The Bradley Educational Colored Papers comprise nearly one hundred and seventy-five colors in four general classes, as follows: "Pure Spectrum Scales," "White, Black and Grays," "Broken Spectrum Scales" and "Engine Colored Papers." The first class contains coated or surface colored papers in eighteen color scales of five tones each. The second class includes White, Black and two tones each of four grays, Neutral Gray, Warm Gray, Cool Gray and Green Gray.

The third class, Broken Spectrum Scales, comprises twelve scales of three tones each, in which the spectrum colors are subdued by grays, thus producing a line of colors which are very beautiful when artistically combined.

The fourth class, Engine Colored Papers, consists of a special line of stained papers, not coated, and hence of the same color on both sides, and thus specially adapted to paper folding. This line furnishes the only engine colored papers in families or scales ever made. Stained papers cannot be produced in the pure spectrum colors, but owing to the method of manufacture are somewhat broken. This line provides six families or scales of three tones each, namely, Red, Orange, Yellow, Green, Blue and Violet, making eighteen in all, with twelve other beautiful Browns and Grays and White and Black.

COLORED PAPER TABLETS.

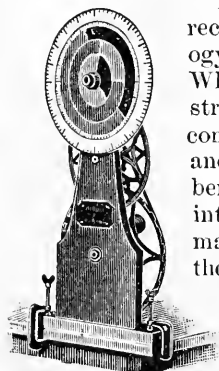
The following selections of Paper Tablets have been adopted in the Massachusetts Normal Schools and recommended by the State Supervisor of Art for use in the elementary grades throughout the state. These slips of paper, one inch by two inches, are recommended for the earliest color instruction rather than similar cardboard tablets, because no sample of a pure color can be of much educational value after a primary pupil has used it for one term, and the cardboard tablets cost so much more than the papers that when they are once introduced there is a temptation to retain them long after their use as educational material is positively injurious.

In order to distinguish this set of tablets we designate them as the Bay State Paper Tablets for Primary Color Instruction. Each set of tablets is contained in an envelope

Set No. 1 consists of one piece each, R., O., Y., G., B., V., White, Black, Neutral Grays No. 1 and No. 2. Set No. 2 has one piece each, of the six standards colors, R., O., Y., G., B., V., with Tint No. 1 and Shade No. 1 of each. Set No. 3 contains one piece each of V.R.—R.—O.R.—R.O.—O.—Y.O.—O.Y.—Y.—G.Y.—Y.G.—G.—B.G.—G.B.—B.—V.B.—B.V.—V.—R.V.—White and Black and two tones each of the Grays, Neutral, Cool, Warm and Green. Set No. 4 contains one piece each of V.R.—R.—O.R.—R.O.—O.—Y.O.—O.Y.—Y.—G.Y.—Y.G.—G.—B.G.—G.B.—B.—V.B.—B.V.—V.—R.V., with Tint No. 1 and Shade No. 1 of each. Set No. 5 is in the form of a book with leaves about one inch wide by four inches long bound at one end and containing the entire line of the Bradley Educational Colored Papers, comprising nearly one hundred and seventy-five colors, divided into four sections by heavy title leaves, as follows: "Pure Spectrum Scales," "White, Black and Grays," "Broken Spectrum Scales," "Engine Colored Papers."

The first three sections consist of coated papers, colored on one side only, and the last section comprises a special line of stained papers, alike on both sides. Each leaf has its color name printed near the binding.

THE HIGH SCHOOL COLOR WHEEL.

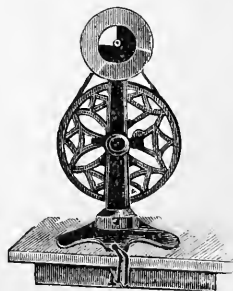


The Bradley Color Scheme has been prepared with direct reference to a relation of physics and the psychology of color to art instruction. The High School Color Wheel is elegant in appearance, very perfectly constructed in all its working parts, and is furnished with a complete set of color disks in four sizes for color analysis and demonstrations. With these disks an infinite number of tints, shades and hues can be formed and a very interesting analysis of natural and artificial colors can be made and recorded. Familiarity with the revelations of the Maxwell disks is absolutely essential to a clear understanding of the questions which immediately present themselves on beginning the study of color phenomena even in their simplest forms, and the rotating disks form the only practical color mixer

suitable to those demonstrations which are necessary in the proper color teaching of the present day.

THE PRIMARY SCHOOL WHEEL.

The Primary School Wheel is a well made machine much smaller and lighter than the High School Model, and more simple in construction. For primary and lower grammar grades this machine is amply adequate for all required experiments. The price at which this wheel is offered brings it within the reach of every school district or teacher and does away with the objection so often heard that such pieces of apparatus are too costly for common use. The teacher who has never tried color experiments with these wheels, even in the primary grades, can have but little idea of the interest which they awaken among the children or of the practical instruction in color which they impart.



THE COLOR TOP.



At the suggestion of prominent educators we have prepared a color top, shown in the accompanying illustration, consisting of a heavy cardboard disk about one inch and a half in diameter, graduated decimally on its circumference, a spindle with a friction nut sliding on it, and sixteen disks of colored papers in two sizes.

This miniature color wheel furnishes a very enjoyable and valuable method of studying color, both for the schoolroom and the library, and with it all colors in flowers, or in textile material may be analyzed and the results recorded. With this top the pupil may at pleasure repeat very many of the experiments which have been presented to the class with the larger Color Mixer, and this personal work will effectually prepare the way for an understanding of the theories involved in the color combinations. With a color wheel in the hands of a trained teacher and a color top for each pupil such progress in color perceptions can be made as has never been possible by any other means.

SPECIAL COLOR CHARTS.

For the use of teachers we prepare a number of ready-made charts relating to the subject of color.

RAINY DAY SPECTRUM.—A small spectrum made from our colored papers, about an inch wide and thirteen inches long, mounted on cardboard, 4 x 16 inches.

LARGE SPECTRUM.—About five inches wide and thirty inches long, made from colored papers and mounted on cloth.

CHART OF PURE SPECTRUM SCALES, No. 1, X.—A Cardboard chart, 9 x 24 inches, hinged in two sections and folding to 9 x 12 inches. This chart contains ninety papers one inch square, arranged in five vertical columns of eighteen squares each. Each horizontal row forms a scale of five tones.

CHART OF PURE SPECTRUM SCALES, No. 2.—A cardboard chart folding into four sections each twelve inches square, with papers each two inches square, arranged as in chart No. 1, X.

CHART OF BROKEN SPECTRUM SCALES, No. 1.—Similar in form and size to Chart of Pure Spectrum Scales No. 1, X, with papers one and one-half inches square, comprising twelve scales of three tones each, light, medium and dark.

CHART OF BROKEN SPECTRUM SCALES, No. 2.—Same form and size as Chart of Pure Spectrum Scales, No. 2, with papers three inches square, arranged in twelve scales of three tones each.

CHART OF COMPLEMENTARY COLORS.—This is a cardboard chart with printed lines and colored paper disks showing at a glance the complementaries of the six standard colors, and serves to refresh the memory of a class regarding these complementaries. The card is eighteen inches square.

SAMPLE BOOK OF COLORED PAPERS.

This is a small book about three inches long and one inch wide, bound at the end and containing one leaf of each of our colored papers with its technical name. The collection consists of nearly 175 colors which are divided by fly leaves into four classes: "Pure Spectrum Scales," "White, Black and Grays," "Broken Spectrum Scales" and "Engine Colored Papers." This is the same as mentioned under Paper Tablets, Set No. 5.

PRICE LIST OF COLOR OUTFIT.

	Price.	Postage.
High School Color Wheel, with Disks in box,	*10.00	
One Set of Disks for above, in box,	*2.00	
Primary School Color Wheel, with Disks,	*3.00	
One Set of Disks for above, in Portfolio, . . . . .	.75	.06
Color Top by mail, . . . . .	.06	
Color Top, per dozen by mail, . . . . .	.50	
No. 1 Prism, . . . . .	.10	.01
No. 2 Prism, . . . . .	.15	.03
No. 3 Prism, . . . . .	.30	.04
Rainy Day Spectrum, . . . . .	.10	.04
Large Spectrum on cloth, thirty inches long, . . . . .	.25	.04
Chart of Pure Spectrum Scales No. 1, X, . . . . .	.50	.10
Chart of Pure Spectrum Scales No. 2,	1.00	.15
Chart of Broken Spectrum Scales, No. 1, . . . . .	.50	.10
Chart of Broken Spectrum Scales, No. 2, . . . . .	.75	.15
Chart of Complementary Colors,	*.50	
Paper Tablets, Set No. 1, . . . . .	.02	
Paper Tablets, Set No. 2, . . . . .	.02	
Paper Tablets, Set No. 3, . . . . .	.03	
Paper Tablets, Set No. 4, . . . . .	.04	
Paper Tablets, Set No. 5, sample book, . . . . .	.05	.01
Sample Book of Colored Papers, same as Tablets No. 5, . . . . .	.05	.01
Package, 4 x 4 papers, 100 pieces, Assortment A or B, . . . . .	.20	.04
Package, 5 x 5 papers, 100 pieces, Assortment A or B, . . . . .	.30	.05
Package, 6 x 6 papers, 100 pieces, . . . . .	.30	.07
Package, 6 x 9 papers, 50 pieces, . . . . .	.30	.05
One Sheet Coated Paper 20 x 24 any color in sample book, . . . . .	.04	
One Sheet Engine Colored Paper, 20 x 24, any color in sample book, . . . . .	.03	

To insure safety by mail each order is enclosed in a pasteboard cylinder, which makes an additional charge of five cents to be added for any order however small.

Assortment A, named in the above list of prices, contains the six spectrum standards with one tint and one shade of each and grays.

Assortment B contains the intermediate hues with one tint and one shade of each. A list of the assortments in the other packages will be furnished on application.

Customers sending for 6 x 6 papers, 100 pieces to a package, must order twelve packages or any multiple of twelve at one time, and those wanting 6 x 9 papers, fifty pieces to a package, must take eight packages or multiples of eight, otherwise the paper will cut to such disadvantage that we cannot afford to sell these packages at the prices named. In ordering select any of the colors in the sample book for either of these packages.

WAX CRAYONS, STANDARD COLORS.

This set consists of eight crayons in a neat and substantial flat box, so arranged that when the cover is removed the crayons are all accessible and in order. The colors consist of the six spectrum standards, with the addition of a brown and a gray, and each crayon is covered with paper of a corresponding color.

Price, per box, \$0.10; postage, \$0.02

THE HAPPY YEAR.

DESIGNS FOR PAINTING.

The rhyme of "The Children's Happy Year" by Miss Rebecca J. Weston was originally written for her own class of children. It was received with such pleasure by them that its publication for wider use seemed desirable, and it was decided to publish the verses in connection with designs for painting. L. J. Bridgman has succeeded in carrying out the spirit of the words in his colored pictures, keeping them so simple in form and color that they make practicable and enticing models for the child.

Set No. 1 contains twelve cards, 7 x 10, lithographed on heavy board in eight colors. These are to serve as models. Set No. 2 contains twelve cards, 7 1-2 x 10, printed in one color on fine drawing paper. These are outline drawings of the same picture as are on the models and are intended to be painted in by the child, copying the colors from the models.

								Price.	Postage.
Set No. 1,	.	.	.	.	.	.	.	\$0.50	\$0.05
Set No. 2,	.	.	.	.	.	.	.	.15	.03

LUDDINGTON'S PICTURE PROBLEMS.

These picture cards are designed to teach the first steps in number. There are seventy-two cards in all, put up in nine sets, and they are chiefly for the teacher's use in class work. They are to be distributed to the pupils at the time of the class exercise, the aim being to teach the young children the facts or relation of numbers from one to ten, before the teaching by figures or signs is begun. The pictures of animals and other objects interest the children and they are asked to make simple problems, requiring combinations of the two numbers of such objects on each card.

These cards can also be used for seat work to good advantage. The children may copy the pictures in the combinations represented or in new groupings, to show other facts in numbers. Part I—Sets 1-5. Part II.—Sets 6-9.

Price, per part, 25 cents; postage, 8 cents.

KINDERGARTEN HOME OCCUPATIONS.

This series of Kindergarten Occupations for the home is new entirely and will be found to excel the collection which we formerly sold under the same name, although offered at a lower price. Each set is put up in a neat box with a handsome lithographed label. The series is as follows:—

	Price.	Postage.
WEAVING.—An assortment of paper mats and strips for weaving with needles and directions,	\$0.50	\$0.14
CARD SEWING OR EMBROIDERY.—Design cards for perforating, sewing with needle, cushion, thread and directions, . . . . .	.50	.12
PAPER CUTTING.—Colored paper and scissors, with designs and instructions for cutting and pasting, . . . . .	.50	.14
PARQUETRY PASTING.—Cut papers in various forms and colors, with designs and instructions for pasting, . . . . .	.50	.15
NATURAL HISTORY CARD SEWING.—PLANTS.—Miss Arnold's Embroidery Cards with needle, cushion and thread, . . . . .	.50	.15
GEMS FROM THE KINDERGARTEN.—A box of weaving stencils and embroidery design cards, with instructions,	*1.00	

PORTRAITS AND BUST OF FRÖBEL.

THE JUBILEE PICTURE.

After many years of investigation regarding an authentic portrait of Fröbel we are able to offer one which not only does him greater justice from the standpoint of his friends to-day than any picture hitherto published, but has also been selected by his neighbors as the best likeness extant. This picture has been very carefully reproduced by a professional portrait painter who has also been a diligent student of Fröbel's life and methods for many years. It is taken from a picture known as the Jubilee Portrait, published in connection with the centennial celebration of Fröbel's birthday, April 21, 1882, which was copied from an oil painting by H. Enders, which hangs in the schoolhouse at Oberweisbach, close by the spot where Fröbel was born.

There is no doubt that this picture is the most authentic to be found anywhere, and while indicating the sweetness which we know was in his heart it has no expression of weakness, but shows the intelligence which is wanting in many portraits of Fröbel which are to be seen on every hand.

						Price.
No. 1	Jubilee Portrait, print,	15 x 19	in.,	sheets,	22 x 28,	\$1.00
No. 2	" " " "	8 x 10	" "		14 x 17,	.50
No. 3	" " " "	5 1-4 x 6 1-2	" "		9 x 10,	.25
No. 4	" " " "	3 x 4	" "		6 x 7,	.05
No. 5	" " " "	1 x 1 1-4	" "		2 x 2 1-2, 25 for	.15

THE IDEALIZED PORTRAIT.

Besides the Jubilee Portrait, as described above, we publish in the corresponding sizes an Idealized Portrait, made by the same artist from the impressions left on his mind after long study of the various front view and profile likenesses of Fröbel which he was able to collect, including a copy of the medallion which appears on the tombstone. The Jubilee Portrait is practically a front view, the same that is seen in nearly all the older family portraits. The Idealized Portrait is a quarter-view picture and brings out those traits which are more definitely expressed in a profile likeness.

						Price.
No. 1	Idealized Portrait, print,	15 x 19	in.,	sheets,	22 x 28,	\$1.00
No. 2	" " " "	8 x 10	" "		14 x 17,	.50
No. 3	" " " "	5 1-4 x 6 1-2	" "		9 x 10,	.25
No. 4	" " " "	3 x 4	" "		6 x 7,	.05
No. 5	" " " "	1 x 1 1-4	" "		2 x 2 1-2, 25 for	.15

FRÖBEL WITH THE CHILDREN.

We also offer a picture of Fröbel and the children, which represents him surrounded by a group of little ones who are intently listening to an object lesson which he is giving them, making a very attractive scene.

		Price.
Fröbel with the Children, print	8 1-2 x 12 inch, sheets 14 x 18,	\$0.75

BUST OF FRÖBEL.

We also offer a bust of Fröbel, twenty-eight inches high and about life-size, designed by following the best authorities respecting every detail of his appearance. This bust is vouched for as being the best likeness of the Father of the Kindergarten to be found in clay.

	Price.
Bust of Fröbel,	*\$8.00

PORTRAIT OF MISS PEABODY.

We take pleasure in offering the kindergartners of America a portrait of Elizabeth Palmer Peabody which meets the approval of her personal friends and will be welcomed by multitudes of those who did and those who did not know the distinguished and devoted American apostle of the kindergarten. The picture represents Miss Peabody seated in her armchair with an open book in her hands, just as she was photographed in the days when she used to lecture to the kindergarten classes in different parts of the country. It is intended as a companion piece to our portrait of Frœbel and is made in two sizes.

	Price.
Large size portrait,	\$1.00
Medium size portrait, . . . . .	.50

PSEUDOPTICS

THE SCIENCE OF OPTICAL ILLUSIONS.

This is a series of psychological experiments for the classroom and the home, prepared under the direction of Prof. Hugo Munsterberg of Harvard University.

The first box, Part No 1, contains four sections A, B, C, D, made up in this way: Section A, Illusions of Length; B, Illusions of Direction; C, Illusions of Form and Size of Figures; D, Illusions of Movement.

The second box, Part No. 2, contains sections E, F, G, H, made up as follows: Section E, Illusions of Special After Effects; F, Illusions of Color Mixtures; G, Illusions of Light and Color Through the Influence of the Surroundings; H, Illusions of Indirect Vision.

Part No. 3, comprises three sections I, J, K, arranged as follows: Section I, Illusions of Multiple Vision; J, Illusions of Perspective; K, Illusions of Stereoscopic Vision.

On each portfolio is a full description of the experiments which it contains, so that any boy or girl who possesses a set of this material can perform all the experiments without further instruction. One important peculiarity of Pseudoptics, and its chief difference from books with their illustrations is found in the fact that here everything is transformed into a real experiment. Nothing is shown as a diagram only, but the experimenter has always to act in connection with it. There is no better way to learn than by acting and there is no better result of our acting than learning.

These experiments and the material for their exhibition are planned on a scale liberal in size and durable in construction, equally useful in the classroom and the home and are cordially recommended by such men as Profs. J. Mark Baldwin of Princeton, E. W. Scripture of Yale and William James of Harvard.

The methods of performing the experiments, which easily number one hundred or more in their various modifications, are clearly described and the principles involved in them and illustrated by them are explained in language not too scientific to be understood and yet not so popular as to lose its educational value.

	Price.
The whole set, comprising three parts,	*\$5.00
Part No. 1,	*2.00
Part No. 2,	*1.75
Part No. 3,	*1.25

Book Department.

OUR OWN PUBLICATIONS.

The list of books for kindergartners and other teachers which we have published from time to time includes a considerable variety and is worthy of the careful attention of all who are studying or teaching the kindergarten system and kindred branches and those who are securing reference libraries relating to such subjects. Any book in this list will be sent post-paid on receipt of the price named.

PARADISE OF CHILDHOOD.

QUARTER CENTURY EDITION.

This standard work by Edward Wiebe was the first illustrated guide to the kindergarten ever published in the English language. The present edition is edited by Milton Bradley and contains all of the original text, with notes on the different gifts and occupations by the editor, with numerous illustrations which are made a part of the text, instead of being grouped together on separate pages, as they were in former editions.

The Quarter Century Edition also contains a life of Fröbel by Henry W. Blake, editor of Kindergarten News. It is a carefully connected and condensed narrative of the career of the man who founded the kindergarten and is intended to be a practical help to all students of Fröbel. Its illustrations of German scenes and people, never before published, are accurate and valuable.

While there are some pupils in training classes and some kindergartners in active service who do not feel the need of a printed guide, many of the best training teachers have often said a good word for the Paradise in its former editions, and multitudes have sought its aid in preparing for their work about the kindergarten tables. In its present form it will be still more attractive and helpful. The book is well printed and bound, and contains about fifteen hundred illustrations and three hundred pages.

Price, in cloth and gilt, \$2.00

IN THE CHILD'S WORLD.

This is a charming book for mothers, kindergartners and primary teachers—all the people who are interested in little children. It is a collection of Morning Talks and Stories by Emilie Poulsson, author of "Nursery Finger Plays," with illustrations by L. J. Bridgman. It is a library in itself, an epitome of childhood literature. There are forty-seven different "talks" about the things with which the children ought to be most intimately acquainted—the changing seasons, fruits, flowers, domestic animals, insects, industrial trades, meaning of holidays, and such bits of history, biography and geography as seem appropriate. The book inculcates many a lesson of patience, gratitude, brotherly kindness and Christian charity, although there is in it no attempt to moralize from the standpoint of any particular creed. Several thousand copies have been sold already. There are four hundred and forty-three pages.

Price, cloth and gilt, \$2.00

MYTHS AND MOTHERPLAYS.

This is the title of a delightful book by Sara E. Wiltse, with illustrations by Hiram Putnam Barnes, the pages of which are not only sure to attract the child's attention, but they all contain something of permanent value. Every object brought before the mind, from the weather-vane to the milky way, is made to furnish a beautiful lesson, not in the perfunctory way of drawing a moral which too often sticks in the throat, but in so easy and gracious a manner that the child swallows and assimilates it as naturally as the rest of the story.

In *Myths and Motherplays* there are twelve groups of nature myths suited to the twelve months of the year and their varied and attractive character may be imagined from the subjects: Cloud myths, fire myths, flower, harvest, moon, rain, rainbow, sun, star, wind and winter myths. Then between these are interspersed the exquisite Fröbel motherplays, destined to become as classical as the old nature myths themselves.

Price, cloth and silver. \$1.00

PRACTICAL SUGGESTIONS.

FOR KINDERGARTNERS, PRIMARY TEACHERS, AND MOTHERS.

This book is by Jeanette R. Gregory, and its object is to furnish a basis for building connected programmes, thereby insuring thorough and systematic work during the year. It contains a connected programme based upon the "Mutter und Kose-Leider," for forty weeks' work which is intended to be suggestive in its nature rather than to be followed literally.

The Gift lessons are original and fully illustrated by numerous engravings, embracing practical lessons with First Gift, Second Gift, Building Gifts, Squares, Triangles, Sticks, Rings and Beads. The thought contained in the programme is developed by a complete set of lessons in Modeling, Peas Work, Folding, Pasting, Mats, Sewing and Drawing; the lessons in Sewing, Drawing and Folding are illustrated by engravings, and all are accompanied by directions for giving the work to the children. *Practical Suggestions* contains over two hundred pages and is printed on fine, heavy paper and handsomely and substantially bound.

Price, leather, cloth and gilt, \$3.00

THE KINDERGARTEN BLACKBOARD.

This book is a collection of outline drawings embracing over one hundred familiar objects in which young children are likely to be interested, by Marion Mackenzie, with an introduction by Constance Mackenzie. It is the outcome of certain experiments made by the author with Philadelphia kindergartners who asked her to start a class in blackboard sketching. They explained that they did not want instruction in object drawing, but needed practice in copying from the flat in order to illustrate in a simple way their songs and stories. Miss Mackenzie found it quite difficult to simplify such drawings as the kindergartners could make appropriate for their programmes. She therefore arranged this series on which they could base their practice outside of class lessons. The opening pages are taken up with things which are supposed to pertain in some way to the different months, and then follows a miscellaneous collection of everyday objects, full directions being given in the preface as to how the drawings should be made.

Price, boards, \$0.60

KINDERGARTEN PAPERS.

This is a collection of seven papers by Angeline Brooks relating to the work of the kindergarten in its different phases which have been printed in some of the leading periodicals of the day or read before distinguished audiences. The list is as follows: The Philosophy of the Kindergarten; The Possibilities of the Kindergarten; The Kindergarten as an Institution for Moral Training; Play and Work in Education; The Connection Between the Kindergarten and the Primary School; Frœbel's Interpretation of Nature; The Religious Nature of Early Childhood.

Price, paper covers, \$0.25

THE KINDERGARTEN AND THE SCHOOL.

The book comprises five papers as follows: Frœbel—The Man and His Work, by Anne L. Page; The Theory of Frœbel's Kindergarten System, by Angeline Brooks; The Gifts and Occupations of the Kindergarten, by Angeline Brooks; The Use of Kindergarten Material in the Primary School, by Mrs. A. H. Putnam; The Connection of the Kindergarten with the School, by Mrs. Mary H. Peabody. There are 150 pages.

Price, paper covers, \$0.50; cloth, \$0.75

FRÖEBEL-THE MAN AND HIS WORK.

This is a brief biography by Anne L. Page of the founder of the kindergarten, in a convenient form, with a picture of his birthplace and the monument to his memory on the cover. The book also contains two portraits of Frœbel and the picture of the village of Keilhau, where his peculiar school was located.

Price, paper covers, \$0.25

COLOR IN THE KINDERGARTEN.

This little book by Milton Bradley is intended to be a Manual of the Theory of Color and Practical Use of Color Material in the Kindergarten. It is illustrated in a way that cannot fail to be helpful to all who are interested in color teaching.

Price, paper covers, \$0.25

INSTRUMENTAL SKETCHES FOR KINDERGARTNERS.

This is a kindergarten music book without words by Katharine Montz. The object of the author is to awaken in the minds of the children various emotions through different rhythms alone. The book contains fifty-three pages, nearly music-page size. Among the pieces are the following: For Prayer; Good Morning Bows; Fire Bells; Sewing Machine; Tiptoe March; Horse Trotting; Rocking the Cradle; Church Bells; Circle March; Skip; Locomotive; Blacksmith; Millwheel; Washing.

Price, cloth, \$1.00

SONGS, GAMES AND RHYMES.

FOR THE NURSERY, KINDERGARTEN AND PRIMARY SCHOOL.

With notes and suggestions by Eudora Lucas Hailmann. The book contains 212 pieces, classified as follows: Opening songs, 15; Closing Songs, 10; Songs and Games of the Seasons, 16; Weather Songs and Games, 10; Songs and Games of Animated Nature, 35; Trades and Occupations, 19; Marches and Movement Plays, 31; Ball Games, 20; Finger and Hand Games, 26; Miscellaneous Games, 30. Combining good and simple music with enlivening words and cheerful games, this book is regarded as a treasure by kindergartners everywhere. There are 169 pages.

Price, paper covers, \$1.25; cloth, \$1.75

SONGS FOR LITTLE CHILDREN.

PARTS I AND II.—BY ELEANOR SMITH.

Part I of this book was composed and arranged by Miss Smith several years ago, being published with an introduction by Mrs. Alice H. Putnam. It has since met with widespread popularity which is so well maintained as to result in a definite demand for Part II by the kindergartners of Chicago and vicinity. This book, which has a large variety of special songs, bids fair to be as popular as the other, and the two are made up in this way :

Part I contains ninety-one pieces, words and music, divided as follows : Morning Songs, 7 ; Songs of the Seasons, 26 ; Gift Songs, 27 ; Marching Songs, 3 ; Circle Games, 5 ; Trade Songs, 4 ; Miscellaneous, 16 ; Closing Songs, 3. There are 109 pages. Price, paper, \$1.00 ; cloth, \$1.25

Part II contains one hundred pieces, songs and music, divided as follows : Morning Songs, 5 ; Trade Songs, 21 ; Circle Games, 14 ; Songs of the Seasons, 6 ; Color, 2 ; Finger Songs, 4 ; Gift Songs, 8 ; Miscellaneous, 40. There are 123 pages. Price, paper, \$1.00 ; cloth, \$1.25

A CHRISTMAS FESTIVAL SERVICE.

This book is arranged for the Home, the Kindergarten and Sunday School, by Nora Archibald Smith and is made up of such songs and carols as have been found popular with little children. The melodies are all simple and easily learned, although by good composers. Most of the songs are intended to be accompanied by simple gestures, such as will naturally suggest themselves to the little ones. The book is printed with red marginal lines and topics. Price, paper covers, \$0.25

ELEMENTARY COLOR.

This book is by Milton Bradley, with an introduction by Prof. Henry Lefavour of Williams College. It is fully illustrated with black and white drawings, in addition to a frontispiece comprising miniature charts of Pure and Broken Spectrum Scales, made from colored papers in 126 different colors.

Nowhere else can be found such a complete explanation of the use of the Glass Prism, Color Wheel, Maxwell Disks, Color Top, Colored Papers and various Color Charts.

This subject of Color, in its relation to public school instruction, is at present gaining ground as never before, and it is too late for teachers to ignore the importance of color instruction from the utilitarian as well as the artistic point of view. Until recently it has been very difficult for them to learn how to impart anything pertaining to this subject in a logical way, but Elementary Color takes a long step ahead in presenting whatever is known about this peculiar and eminently fascinating adjunct of art and science in the daily life of everybody. Elementary Color has one hundred and thirty pages. Price, cloth and gilt, \$0.75

COLOR IN THE SCHOOLROOM.

This book, also by Milton Bradley, sets forth the peculiarities of the Bradley Scheme for Teaching Color to the pupils of our common schools, and indicates what can be done along the various lines of color instruction by the use of the Bradley Educational Colored Papers.

Price, cloth and gilt, \$1.00

CLAY MODELING IN THE SCHOOLROOM

This book by Ellen Stephens Hildreth is an illustrated manual of instruction in Clay Modeling for the kindergarten and school, based on the curved solids. There has long been a demand among kindergartners and primary school teachers for just such a book, and the directions are so plain and minute that they can be followed with little difficulty. Mrs. Hildreth was associated with Miss Blow in the St. Louis kindergartens. Clay Modeling has seventy-five pages. Price, paper covers, \$0.25

PAPER AND SCISSORS IN THE SCHOOLROOM.

This book by Emily A. Weaver, is planned to give a practical and systematic course in paper folding and cutting for all grades in the public and private schools. The work begins with the simple foldings adapted to the first year in school and enlarges its scope to give cutting suited to higher grade work. With over 200 illustrations.

Price, paper covers, \$0.25

WOODWORK IN THE COMMON SCHOOL

FOR PRIMARY AND GRAMMAR GRADES.

The author of this book is Frederic A. Hinckley and it is a manual for teachers, bridging the chasm between the kindergarten and the advanced manual training schools. It contains dictations, suggestions and plates for the whole course. The work is adapted to the regular schoolroom and can be conducted, if necessary, by the regular teacher. It is thoroughly American in spirit and logical in development, and can be introduced at very moderate cost. It has been adopted in several Massachusetts cities and is in process of adoption elsewhere.

It undertakes to cover completely the lower as well as the higher grades of school work, makes drawing fundamental, and emphasizes at every step the importance of original work by the pupil. Woodwork in the Common School is a book that all progressive school boards will want to examine.

Price, cloth, \$1.00

KNIFE WORK IN THE SCHOOLROOM.

PROBLEMS FOR PUPILS UNDER FOURTEEN.

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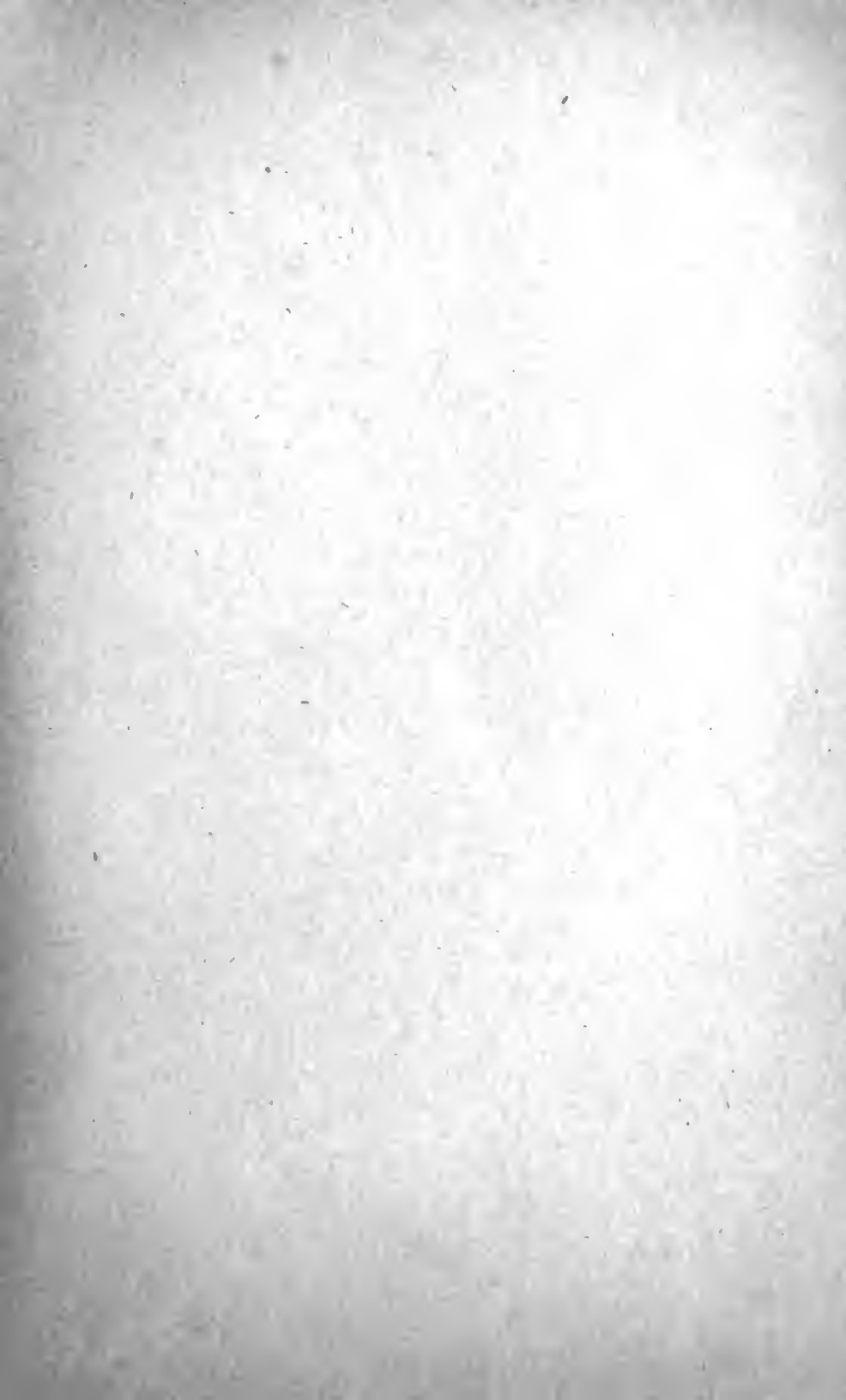
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